CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, April 13, 1905.

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CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

DRAFTSMAN.—Municipal Civil Service Commission, Henry Berlinger, Secy., 61 Elm St., New York City, will hold an examination April 25 for the position of structural steel draftsman at $1,800 and more per year. Applications will be received until 4 p. m., April 18. The same commission will hold an examination April 27 for the position of draftsman's helper. Applications will be received until 4 p. m., April 20.

CIVIL ENGINEER STUDENT.—U. S. Civil Service Commission, Washington, D. C., from whom further information can be obtained, will hold an examination May 10-11 to fill at least three vacancies in the position of civil engineer student in the Division of Tests, Bureau of Chemistry, Department of Agriculture, at not exceeding $50 per month each, and similar vacancies as they may occur in that Department. The object of this examination is to qualify young engineer students for a one-year graduate course in highway engineering. Six months will be devoted to laboratory work and study, and six months to practical road building in the field.

DRILL WORKMAN, TRAIN MASTER, ETC.—U. S. Civil Service Commission, Washington, D. C., from whom further information can be obtained, will hold examinations May 1 to fill vacancies in the following positions under the Isthmian Canal Commission on the Isthmus of Panama: Steam and air drill workman, $83.33 per month; train master, $200 per month; general yard foreman, $175 per month; yard master, $125 to $150 per month; superintendent, $250 per month; supervisor and trackman, $175 per month; trackman, $83.33 per month; work train conductor, $120 and $140 per month; locomotive engineer, $125 to $145 per month; switch engineman, $100 to $115 per month; switchman, $100 per month; switchman's helper, $75 per month; trainman, $60 to $90 per month; locomotive fireman, $75 per month.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Apr.				
*8	Bridge	Springfield, Mass.	P	3-23
8	Dredging	Dry Tortugas, Fla.	S	3-23
*12	Water-works, etc.	Graham, N. C.	P. & S.	3-30
15	Electric crane	Puget S'd, Wash.	S	3- 9
*19	Electric wiring, etc.	———	S	4-13
29	Coal plant	New Orleans, La.	S	3- 9
22	Plumbing, etc.	Charleston, S. C.	S	3-30
29	Firepf. stairways	Boston, Mass.	S	4-13
*29	Pipe laying, etc.	Waterville, Me.	S	4-13
May				
6	Quay wall	Bremerton, Wash.	S	3-23
6	Cableways	Washington, D. C.	S	4-13
*9	Road work	Atlantic City, N. J.	P. & S.	4-13
*14	Water-works	Mansfield, La.	S	2- 2
Sept.				
1	Steel manufacture	New S. Wales.	S	3-23

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Apr. 19. Electric light plant, Lake Charles, La....Apr. 13
Apr. 20. Electric station, New York, N. Y.....Apr. 13
Apr. 20. Lighting, etc., Barnesville, O.....Apr. 13
Apr. 20. Electric plant, Lindsborg, Kan.....Apr. 13
Apr. 24. City lighting, Janesville, Wis.....Apr. 6
Apr. 25. Electric light plant, Watkins, N. Y.....Apr. 13
Apr. 26. Public lighting, Des Moines, Ia.....Apr. 13
Apr. 27. City lighting, Ligonier, Ind.....Mar. 30
May 1. Arc light, etc., Meridian, Miss.....Apr. 13
May 2. Lightings, Oswego, N. Y.....Apr. 6
Advertised, Eng. News, Apr. 6 to Apr. 27.
May 3. Public lighting, Washington, D. C.....Apr. 13
May 5. Electric plant sale, Port Arthur, Ont.....Apr. 13
May 15. Electric plant, Jewell City, Kan.....Mar. 23

BRIDGES.

Apr. 13. Bridges, etc., Jackson, O.....Mar. 23
Apr. 14. Bridge, St. Louis, Mo.....Apr. 6
Apr. 15. Bridge, Indianapolis, Ind.....Apr. 6
Apr. 15. Bridge, steel, Spokane, Wash.....Apr. 6
Apr. 15. Viaduct, reflooring, Birmingham, Ala...Apr. 6
Apr. 15. Bridges, Scranton, Pa.....Apr. 13
Apr. 19. Bridge, superstructure, Albany, N. Y....Apr. 13
Apr. 19. Bridges, steel, Cleveland, O.....Apr. 6
Apr. 19. Bridges, Moscow, Idaho.....Mar. 9
Apr. 21. Approach, Cincinnati, O.....Mar. 30
Apr. 21. Bridges, Tacoma, Wash.....Apr. 6
Apr. 25. Bridge, Indianapolis, Ind.....Apr. 6
Apr. 25. Concrete arch, Cleveland Heights, O....Apr. 6
Apr. 26. Bridge, Denver, Colo.....Apr. 6
Apr. 29. Culverts, etc., Cleveland, O.....Apr. 13
May 1. Bridge, steel, Greenwood, Ark.....Apr. 13
Advertised, Eng. News, Apr. 13.
May 1. Bridge steel, Quincy, Cal.....Apr. 6
May 1. Bridge, steel, Washington, D. C.....Apr. 6
Advertised, Eng. News, Apr. 6 and 13.
May 1. Bridge, Richland Center, Ark.....Mar. 9
May 3. Bridge, steel, Peru, Ind.....Apr. 6
May 3. Bridges, concrete steel, Bluffton, Ind....Apr. 13
May 4. Bridge, Wabash, Ind.....Apr. 13
May 4. Bridges, iron, Birmingham, Ala.....Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 5. Bridge, superstructure, Cincinnati, O....Apr. 13

BUILDINGS.

Apr. 14. School work, Chicago, Ill.....Apr. 13
Apr. 15. Auditorium, Dayton, O.....Apr. 13
Apr. 15. Shop buildings (Mfg. Pl.), Jackson, O..Mar. 16
Apr. 15. Court-house, Corsicana, Tex.....Mar. 16
Apr. 15. Club building, Clinton, Ia.....Apr. 6
Apr. 17. High school plans, Richmond, Va.....Mar. 16
Apr. 17. School, Boston, Mass.....Apr. 13
Apr. 17. School additions, New York, N. Y.....Apr. 13
Apr. 18. Interior work, etc., New Brighton, N. Y..Apr. 13
Apr. 18. Auditorium, St. Joseph, Mo.....Mar. 16
Apr. 19. Electric wiring, etc., Fort Slocum, N. Y..Apr. 13
Advertised, Eng. News, Apr. 6 and 13.
Apr. 19. Engine house alterations, N. York, N. Y.Apr. 13
Apr. 19. Masonry, plumbing, etc., New York, N. Y.Apr. 13
Apr. 20. Court-house, Madison, Ga.....Apr. 13
Apr. 20. Officers' quarters, West Point, N. Y....Mar. 23
Advertised, Eng. News, Mar. 23 to Apr. 13.
Apr. 20. Court-house, Norman, Okla.....Apr. 6
Apr. 22. School, Dexter, Ia.....Mar. 30
Apr. 22. Plumbing, fire mains, Charleston, S. C..Mar. 30
Apr. 24. Steam heating, Charlottesville, Va.....Mar. 30
Apr. 24. Brick buildings, Boston, Mass.....Mar. 30
Apr. 24. School, New York, N. Y.....Apr. 13
Apr. 24. Jail, court-house, St. Joseph, La.....Apr. 13
Apr. 24. College bldgs., New York, N. Y.....Apr. 13
Apr. 25. School, Wheeling, W. Va.....Apr. 13
Apr. 25. Steam heating, Pierre, S. Dak.....Mar. 30
Apr. 25. Mess rooms, Ft. McPherson, Ga.....Apr. 6
Apr. 26. School, McMechen, W. Va.....Apr. 13
Apr. 27. Court-house, Magnolia, Ark.....Apr. 13
Apr. 27. Post-office, Flint, Mich.....Apr. 13
Apr. 28. High-school, Cresco, Ia.....Apr. 13
Apr. 29. Church, Steubenville, O.....Apr. 13
Apr. 29. Fireproof stairways, etc., Boston, Mass..Apr. 13
Apr. 29. Court-house, Norman, Okla.....Apr. 6
Apr. 29. Heating apparatus, Wash. Barracks, D. C.Mar. 30
Advertised, Eng. News, Mar. 30 to Apr. 26.
Apr. 29. Bank building, Washington, D. C.....Mar. 30
May 1. Post-office, Jacksonville, Ill.....Apr. 13
May 3. Court-house, Vinton, Ia.....Mar. 30
May 6. Heating apparatus, Florence, S. C.....Apr. 13
May 8. Interior finish, New York, N. Y.....Mar. 16
May 9. Mechanical equipment, New York, N. Y.Mar. 16
May 10. Elevator equipment, New York, N. Y....Apr. 13
May 11. Post-office, Laramie, Wyo.....Apr. 13
May 11. Smoke-stack, etc., Ft. Assiniboine, Mont.Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
May 12. 18 buildings, Prescott, Ariz.....Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
May 20. Masonic Temple plans, Brooklyn, N. Y..Mar. 30
June 12. Capitol plans, Boise, Idaho.....Apr. 13
June 15. Court-house plans, New Orleans, La.....Feb. 23

WATER SUPPLY AND IRRIGATION.

Apr. 13. Pipe, castings, etc., Quebec, Que.....Apr. 6
Apr. 15. Water-works, Connelsville, Pa.....Mar. 30
Apr. 15. Artesian well, Fernandina, Fla.....Mar. 30
Apr. 15. Water-works, Northome, Minn.....Apr. 6
Apr. 15. Reservoir, etc., Fort Benton, Mont.....Apr. 13
Apr. 15. Pipe and castings, Oswego, N. Y.....Apr. 13
Advertised, Eng. News, Apr. 13.
Apr. 17. Concrete reservoir, Prescott, Ariz.....Apr. 13
Apr. 17. Pipe line, Augusta, Me.....Mar. 23
Advertised, Eng. News, Mar. 23 to April 13.
Apr. 17. Water pipe, Michigan City, Ind.....Apr. 6
Apr. 18. Pumping machinery, New Orleans, La..Feb. 16
Advertised, Eng. News, Feb. 16 to April 20.
Apr. 18. Pumping engine, Toronto, Ont.....Feb. 23
Advertised, Eng. News, Feb. 23 to Mar. 23.
Apr. 20. Water-works, Millville, Minn.....Apr. 6
Apr. 20. Water-works, Hoisington, Kan.....Apr. 6
Apr. 20. Water-works, Lindsborg, Kan.....Apr. 13
Apr. 24. Water-works, White Bear, Minn.....Apr. 13
Apr. 25. Tank and tower, Washington, D. C.....Apr. 6
Apr. 26. Engine, boilers, Chicago, Ill.....Apr. 13
Apr. 28. Water-works, Cassville, Mo.....Apr. 13
Apr. 29. Pipe laying, etc., Waterville, Me.....Apr. 13
Advertised, Eng. News, Apr. 13.
May 1. Reservoir, pumps, etc., Ft. Wright, Wash.Apr. 13
May 1. Tank, Salem, Va.....Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 1. Irrigation canal, Cody, Wyo.....Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 2. Laying pipe, Cincinnati, O.....Apr. 6
May 2. Pumping plant, Los Angeles, Cal.....Apr. 6
May 3. Water-works, Lexington, N. C.....Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 4. Water-works impts., De Pere, Wis.....Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
May 5. Pipe and castings, West Point, N. Y.....Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
May 6. Tank and trestle, San Antonio, Tex....Apr. 13
May 11. Water main connection, New Orleans, La.Mar. 23
May 11. Water system, side track, Oswego, N. Y.Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 11. Laying pipe, West Point, N. Y.....Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 14. Water-works, Mansfield, La.....Mar. 2
Advertised, Eng. News, Mar. 2.
May 15. Pumping engine, Montreal, Que.....Mar. 9
Advertised, Eng. News, Mar. 9.
May 16. Irrigation canals, Denver, Colo.....Mar. 23
Advertised, Eng. News, Mar. 23 to May 4.
June 1. Irrigation canals, etc., Glendive, Mont....Apr. 6
Advertised, Eng. News, Apr. 6 to May 18.

SEWERAGE.

Apr. 14. Sewer system, Blackwell, Okla.....Apr. 6
Apr. 15. Sewers, Roanoke, Va.....Apr. 13
Apr. 15. Sewers, etc., Washington, D. C.....Apr. 13
Apr. 17. Sewer pipe, Norristown, Pa.....Apr. 13
Apr. 17. Sewers, Harrisburg, Pa.....Apr. 13
Apr. 18. Sewer, Findlay, O.....Apr. 13
Apr. 18. 65 miles sewers, New Orleans, La.....Feb. 16
Advertised, Eng. News, Feb. 16 to April 20.
Apr. 19. Drain, Amsterdam, N. Y.....Apr. 13
Apr. 19. Sewer, New York, N. Y.....Apr. 13
Apr. 20. Cast-iron sewers, Salem, Mass.....Apr. 13
Advertised, Eng. News, Apr. 13.
Apr. 20. Sewers, Wilton, N. H.....Apr. 6
Advertised, Eng. News, April 6 and 13.
Apr. 24. Sewer, Lafayette, Ind.....Apr. 13
Apr. 24. Sewers, Muskogee, Ind. T.....Apr. 13
Apr. 26. Sewers, Brooklyn, N. Y.....Apr. 13
May 1. Sewer, Lexington, Ky.....Mar. 30
May 2. Sewers, Waterbury, Conn.....Apr. 13
May 4. Sewerage, Saltsburg, Pa.....Apr. 13

STREETS AND ROADS.

Apr. 14. Creosoted block, Minneapolis, Minn.....Mar. 16
Apr. 14. Paving, brick, Janesville, Wis.....Mar. 30
Apr. 14. Paving, etc., Cincinnati, O.....Mar. 23
Apr. 14. Road, shell, Ft. Mott, N. J.....Mar. 23
Apr. 14. Paving, brick, Paris, Ill.....Apr. 6
Advertised, Eng. News, Apr. 6.
Apr. 14. Road, West Boylston, Mass.....Apr. 6
Advertised, Eng. News, Apr. 6.
Apr. 15. Paving and sewers, Barberton, O.....Apr. 6
Advertised, Eng. News, Apr. 6 and 13.
Apr. 15. Roads, Sullivan, Ind.....Mar. 23
Apr. 15. Paving, brick, East Cleveland, O.....Mar. 30
Apr. 16. Paving, brick, Reading, Pa.....Apr. 6
Apr. 17. Roads, gravel, Rensselaer, Ind.....Apr. 6
Apr. 17. Road, Pomona, N. C.....Apr. 6
Advertised, Eng. News, Apr. 6 and 13.
Apr. 17. Sidewalks, Montgomery, Ala.....Apr. 6
Apr. 17. Paving, asphalt, Cincinnati, O.....Mar. 30
Apr. 17. Macadamizing, Perrysburg, O.....Mar. 30
Apr. 17. Boardwalk, Atlantic City, N. J.....Apr. 13
Apr. 17. Sidewalks, New York, N. Y.....Apr. 13
Apr. 17. Grading, etc., Boston, Mass.....Apr. 13
Apr. 18. Grading, etc., La Crosse, Wis.....Mar. 2
Apr. 18. Paving, brick, Mankato, Minn.....Apr. 6
Apr. 18. Sidewalks, cement, Redoak, Ia.....Apr. 6
Apr. 18. Paving, Escanaba, Mich.....Apr. 6
Advertised, Eng. News, Apr. 6.
Apr. 20. Grading, Gettysburg, Pa.....Mar. 30
Apr. 20. Grading, etc., New York, N. Y.....Apr. 13
Apr. 21. Paving, Traverse City, Mich.....Apr. 13
Apr. 21. Paving, Attica, Ind.....Apr. 13
Apr. 21. Stone pike, Bucyrus, O.....Apr. 13
Apr. 21. Paving, Cincinnati, O.....Mar. 23
Apr. 22. Road, gravel, Williamsport, Ind.....Apr. 13
Apr. 22. Roads, Bluffton, Ind.....Apr. 13
Apr. 24. Macadam, Mt. Vernon, Ind.....Apr. 13
Apr. 24. Sidewalks, Muncie, Ind.....Apr. 13
Apr. 24. Roads, McKeesport, Pa.....Apr. 13
Apr. 24. Macadam roads, Pittsburg, Pa.....Apr. 13
Apr. 24. Roads, Bowling Green, O.....Apr. 13
Apr. 24. Macadamizing Cincinnati, O.....Apr. 6
Apr. 24. Paving, etc., Wellsville, O.....Apr. 6
Apr. 25. Grading, Indianapolis, Ind.....Apr. 6
Apr. 26. Paving, Hoboken, N. J.....Apr. 6
Apr. 26. Paving, Brooklyn, N. Y.....Apr. 13
Apr. 26. Paving, Cincinnati, O.....Apr. 13
Apr. 27. Paving, Augusta, Ga.....Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
Apr. 28. Sidewalks, etc., Youngstown, O.....Apr. 13
Apr. 29. Macadam road, Wilkesbarre, Pa.....Apr. 13
Advertised, Eng. News, Apr. 13.
Apr. 30. Road, Vicksburg, Miss.....Mar. 23
May 1. Paving, Evansville, Ind.....Mar. 30
May 1. Paving, brick, Bucyrus, O.....Apr. 13
May 2. Macadam road, Versailles, Ind.....Apr. 13
May 2. Roads, Bloomfield, Ind.....Apr. 6
May 4. Macadamizing, Cincinnati, O.....Apr. 13
May 6. Road, Washington, Pa.....Apr. 13
May 9. Graveling, Atlantic City, N. J.....Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
June 1. Paving, brick, Fremont, O.....Mar. 16

MISCELLANEOUS CONTRACTS.

Apr. 13. Riprap stone, New York, N. Y.....Apr. 6
Apr. 13. Sprinkling carts, New York, N. Y.....Apr. 6
Apr. 13. Portland cement, Washington, D. C.....Mar. 9
Advertised, Eng. News, Mar. 9 to April 13.
Apr. 14. Breakwater, Freeport, N. S.....Apr. 6
Apr. 15. Breakwater, Devil Island, N. S.....Apr. 6
Apr. 15. Ditch, Lafayette, Ind.....Apr. 6
Apr. 15. Cruisers, Washington, D. C.....Mar. 2
Apr. 15. 100 miles railway, Tidewater Ry.....Mar. 9
Advertised, Eng. News, Mar. 9 to Apr. 6.
Apr. 15. Electric crane, Puget Sound, Wash.....Mar. 9
Apr. 15. Quarrying, etc., Washington, D. C.....Mar. 30
Advertised, Eng. News, Mar. 30.
Apr. 15. Cement, New London, Conn.....Apr. 13
Advertised, Eng. News, Apr. 13.
Apr. 17. Pier work, New York, N. Y.....Apr. 13
Apr. 17. Cement, lumber, etc., Cambridge, Mass.Apr. 13
Apr. 17. Chemical wagon, etc., Wichita, Kan.....Apr. 13
Apr. 17. Dredging, New York, N. Y.....Apr. 6
Advertised, Eng. News, Apr. 6 and 13.
Apr. 17. Board walk, Atlantic City, N. J.....Apr. 6
Advertised, Eng. News, Apr. 6.
Apr. 17. Dredging, New York, N. Y.....Apr. 6
Apr. 17. Dam, Pittsburg, Pa.....Mar. 23
Advertised, Eng. News, Mar. 23 to Apr. 20.
Apr. 17. Dam, foundations, etc., Pittsburg, Pa..Mar. 23
Advertised, Eng. News, Mar. 23 to Apr. 20.
Apr. 18. Motors, wire rope, etc., Wash., D. C....Apr. 6
Apr. 18. Boilers, Columbus, O.....Apr. 6
Apr. 18. Pier, wall, Edgewater, N. J.....Apr. 6

Apr. 18. Dredging, Ellis Island, N. Y............Apr. 6
Apr. 18. Dam, foundations, etc., Pittsburg, Pa....Mar. 23
Advertised, Eng. News, Mar. 23 to Apr. 20.
Apr. 18. Tunnels, Penn., N. Y. & L. I. Ry.......Mar. 30
Advertised, Eng. News, Mar. 30 to Apr. 13.
Apr. 18. Levee, Pointe a la Hache, La............Mar. 30
Apr. 18. Dredging New York, N. Y...............Apr. 13
Apr. 18. Sweeping plant, New York, N. Y.........Apr. 13
Apr. 19. Cement, Chicago, Ill...................Apr. 13
Apr. 19. Dredging, Brooklyn, N. Y...............Apr. 13
Apr. 19. Dam, foundations, etc., Pittsburg, Pa....Mar. 23
Advertised, Eng. News, Mar. 23 to Apr. 20.
Apr. 19. Saws, planers, scrapers, etc., Wash., D. C. Mar. 23
Apr. 19. Dam, San Francisco, Cal..............Mar. 23
Advertised, Eng. News, Mar. 23 to Apr. 20.
Apr. 20. Trap rock, cement, New York, N. Y....Apr. 13
Apr. 20. Street sprinkling, Rome, N. Y..........Apr. 13
Apr. 20. Lumber, New York, N. Y...............Apr. 13
Apr. 21. Bulkhead, Lorain, O....................Apr. 13
Apr. 21. Drainage, Havana, Ill..................Apr. 13
Advertised, Eng. News, Apr. 13.
Apr. 24. Garbage plant, Los Angeles, Cal.........Apr. 6
Apr. 25. Rails, wire, lathe, etc., Washington, D. C. Mar. 30
Apr. 25. Wireless telegraph, Washington, D. C....Apr. 13
Apr. 25. Cable, drills, etc., Washington, D. C.....Apr. 13
Apr. 25. Sprinkling trucks, New York, N. Y.....Apr. 13
Apr. 27. Trap rock, Holyoke, Mass..............Apr. 6
Apr. 28. Garbage collection, Washington, D. C....Apr. 13
Advertised, Eng. News, Apr. 13 and 20.
Apr. 29. Fire engine, etc., Champaign, Ill.........Apr. 13
Apr. 29. Dock, Burlington, Vt..................Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
Apr. 29. Ditch work, Monticello, Ill.............Mar. 30
May 1. Electric railway, Toronto, Ont..........Mar. 30
May 1. Machinery, etc., Washington, D. C......Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 1. Ordnance supplies, Dover, N. J..........Apr. 13
May 1. Castings, Washington, D. C.............Apr. 13
May 1. Building railway, Toronto & Hamilton Ry. Apr. 13
May 1. Cement, sand, etc., Portland, Me........Apr. 13
Advertised, Eng. News, Apr. 13 to May 4.
May 2. Machine tools, Washington, D. C.........Apr. 13
May 2. Drainage ditches, Breckenridge, Minn....Apr. 13
May 2. Track tools, metals, etc., Wash., D. C...Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Steam shovels, Washington, D. C......Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Dam work, Wheeling, W. Va..........Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Dredging, Newport, R. I...............Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Jetty, Newport, R. I...................Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 3. Ordnance supplies, Springfield, Mass....Apr. 13
May 4. Garbage collection, Philadelphia, Pa....Apr. 13
May 6. Cableways, Washington, D. C...........Apr. 13
May 6. Breakwater work, Cleveland, O........Apr. 6
Advertised, Eng. News, Apr. 6 to May 4.
May 8. Dredging, Newport, R. I................Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 9. Conduit, trucks, motors, etc, Wash., D. C. Apr. 13
May 10. Earth spreaders, etc., Washington, D. C..Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 12. Rock removal, New York, N. Y.........Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 15. Dredging, Newport, R. I...............Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
May 16. Machinery, Washington, D. C............Apr. 13
July 1. Street Railway, Chicago, Ill............Apr. 13
Advertised, Eng. News, Apr. 13 to May 11.
Sept. 1. Steel manufacture, New South Wales..Mar. 23
Advertised, Eng. News, Mar. 30 to June 29.
No date. Electric railway, Corry, Pa.............Apr. 6
Advertised, Eng. News, Apr. 6.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATCHISON, TOPEKA & SANTA FE.—It is announced that contracts have been let as follows, for about 130 miles out of the total of 152 miles of double-tracking on company's lines: Between Kernan and Streator, Ill., to HAINES & CO., of Shorey, Kan.; between Florence and Peabody, Kan., to LIKES & HATFIELD, of Wichita, Kan.; between Bucklin and Marceline, Mo., to PETTIBONE, SENTRY & CO., of Chicago. Three contracts were given to CAMERON, McMANUS & JOYCE, of Keokuk, Ia., which includes the grading between Streator and Macuta, Ia., and Hardin and Lexington, Mo. THE LANTRY-SHARP CONTRACTING CO. will do the work on the line between Macuta and Nixon, Mo.; Zarah and Olathe, Kan., and "H U" Tower and Malvern, Kan., and Olivet and Lebo, Kan. Two important contracts for that section of the road between Peabody and Leaman, and Malvern and Olivet, Kan., where the line is to be straightened, are yet to be let. W. B. Storey is Ch. Engr., at Topeka, Kan.

BEE TREE.—We are informed that work on new construction will begin about April 25. S. F. Chapman, Shope, N. C., is Gen. Mgr.

BOSTON & ALBANY.—Tracks on circuit line between Newton Highlands and Newton Center, Mass., will be depressed, this summer, it is said. W. Shepard, Boston, is Ch. Engr.

BUFFALO, ROCHESTER & PITTSBURG.—SAMUEL RINN, of Punxsutawney, Pa., has been awarded contract for double-tracking and straightening this line between Big Run and Punxsutawney, Pa., five miles. EDWARD ROBINSON, of Punxsutawney, has contract, it is reported, for similar work.

CANADIAN VALLEY & WESTERN.—Engineers have surveyed an extension to Lehigh, Ind. T., it is said. Company was chartered to build from Coalgate, Ind. T., to Clinton, Okla., by way of Tupelo, Purcell, Chickasaw and Weatherford. D. Carter, Purcell, Ind. T., is Pres., and R. L. McWillie is Ch. Engr.

CHEMIN DE FER DE COLONISATION DU NORD.—Hon. J. D. Rolland, Pres., 14 St. Vincent St., Montreal, Que., informs us that surveys for this railway will commence in July. It will be 35 miles long, extending from Nominingue to Rapide l'Original, Que. Capital has been secured for its construction. Bids will be received in the fall. Noted on March 9 under "Northern Colonization Ry."

CHESAPEAKE & OHIO.—It is reported that company has let a contract to HAINES BROTHERS & CO. to double-track line from Russell, Ky., to Greenup, Ky.

CHICAGO, ROCK ISLAND & PACIFIC.—Contract has been let for building line from Traskwood, Ark., to Crosett, Ark., 107 miles, to CRANEY, DELHOFF & PETERS, of Little Rock, Ark. Est. cost, $1,750,000.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—The contracts for constructing a cut-off from Danville, Ill., to Chicago, have been awarded to WINSTON BROS., of Minneapolis, and McARTHUR BROS., of Chicago. This new line will be 100 miles long.

FULTON COUNTY NARROW GAGE.—This line is 3-ft. gage, and it is to be changed to standard-gage in the spring. It extends from West Havana to Galesburg, Ill., 61 miles, and will connect with the Chicago, Burlington & Quincy Ry. at Lewistown. T. M. Stuart, Lewistown, Ill., is Pres. M. C. Atwood, Lewistown, is Supt.

GULF, HUTCHINSON & NORTHWESTERN.—We are informed that company will do its own construction on first ten miles of proposed railway. Capital is partly secured. The line will be built from Arkansas City to Oberlin, Kan., via Wellington, Hutchinson, La Crosse and Stockton. Surveys have been run for 150 miles of line. Total length, in Kansas, will be 400 miles. Right of way has been secured. Grading will begin about May 1 between La Crosse and Smoky Hill River. C. W. Colt, Hutchinson, Kan., is Ch. Engr. Eugene Tilleux, Hutchinson, is Pres.

ILLINOIS CENTRAL.—Company has commenced surveys of the Vermilion County and western Indiana coal fields with a view to extending its lines into Indiana. About 40 miles of new track would be laid. A. S. Baldwin, Chicago, Ill., is Ch. Engr.

JACKSONVILLE & SOUTHERN (Atlantic Coast Line).—This company, which will build an extension from Newberry to Perry, Fla., 75 miles, has awarded a contract to A. F. LANGFORD, of Valdosta, Ga.

KETTLE RIVER VALLEY.—This company, which is operating a railway from Grand Forks, B. C., to Republic, Wash., has completed the survey of a route from Republic to Spokane, 140 miles. It will cost $3,500,000 to build the road. General Manager H. W. Warrington, Grand Forks, B. C., is now securing capital. The proposed route is down the San Poil River from Republic to the Columbia and then up the Columbia and to Spokane. An extension of the road is also projected north and west from Grand Forks 300 miles to Vernon, B. C., and also to Spencers Bridge, B. C., where connection would be made with the Canadian Pacific railway.

LAC LA BELLE & CALUMET (Keweenaw Central).—This railway has been purchased by a western company, it is reported. The name will be changed to the Keweenaw Central Ry. Noted on March 30.

MEDFORD & CRATER LAKE.—We are informed that all right-of-way has been secured and surveys completed. Funds has been subscribed for building 12 miles of proposed 32 miles of line. A. A. Davis, Medford, Ore., is Pres., and J. A. McCall is Ch. Engr. Contracts for grading between Medford and Eagle Point has been let to CHARLES EWING, of Medford. Other contracts will be let at once.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—Contract has been awarded to H. W. LISHNESS and D. S. HALL, of Anoka, Minn., for building 25 miles of the new line for which WINSTON BROS. were awarded general contract. Noted March 23.

MOBILE & OHIO.—An extension of the Shuqualak-Edinburgh branch to Jackson, Miss., is under consideration.

WINSTON-SALEM SOUTHBOUND.—This company has been granted a charter by the North Carolina legislature. The routes under consideration are: One from Winston-Salem via High Point; down the Moharrie River and along the left bank of the Pee Dee River to Rockingham and Hamlet; thence connecting with the Atlantic Coast Line at Gibson for Charleston. Another route is by way of Lexington and Wadesboro, connecting with the Atlantic Coast Line at the latter point for Charleston. A third route via Lexington, Mt. Pleasant, Monroe, Jefferson, S. C., McBee, S. C., would connect with the Atlantic Coast Line near Sumter for Charleston. Col. F. H. Fries is promoting the project. W. T. Brown, Pres. Winston-Salem Board of Trade, is interested.

NEW YORK, NEW HAVEN & HARTFORD.—Contract for improving this railway from Willis Ave. and 133d St., New York, to New Rochelle, has been awarded to the NEW YORK CONTRACTING COMPANY-NEW HAVEN IMPROVEMENT CO., of New York, a company said to be allied with the New York Trucking and Contracting Co. This new improvement will cost $6,000,000.

PHILADELPHIA, HARRISBURG & PITTSBURG (Philadelphia & Reading).—We are informed that surveys are under way for double-tracking this line from Harrisburg to Shippensburg, Pa., 41 miles. Bids will be asked. Cost, about $500,000. William Hunter, Reading Terminal, Philadelphia, is Ch. Engr.

PHILADELPHIA & READING.—This company will expend $5,000,000 on its property within city of Philadelphia. William Hunter, Philadelphia, is Ch. Engr.

PINE BLUFF & SOUTHERN.—This railway will be 26 miles long, running from Pine Bluff, Ark., to Star City. Company has been incorporated by C. C. Godman, of Kansas City; J. B. Johnson, of Pine Bluff; S. C. Alexander, R. G. Atkinson and W. H. Langford, of Pine Bluff. Capital is now being subscribed. Pine Bluff is to raise $75,000. J. B. Johnson is Secy. of Pine Bluff Board of Trade.

PITTSBURG, CINCINNATI, CHICAGO & ST. LOUIS.—The contract for the elevation of tracks and street work for this company in Chicago, Ill., amounting to about $200,000, has been awarded to GILBART H. SCRIBNER, Jr., Railway Exchange Bldg., Chicago.

PITTSBURG, FT. WAYNE & CHICAGO (Pennsylvania).—Bids have been received for abolition of grade crossings in Allegheny, Pa., roundhouses, etc. A. M. Schoyer, Pittsburg, is Gen. Supt. of Pennsylvania Lines West of Pittsburg.

SAN DIEGO-EASTERN.—L. L. Boone, Secy., San Diego, Cal., advises us that preliminary survey from San Diego to Yuma has been run and a location survey 40 miles east of San Diego. Right-of-way partly secured. The railway will be 210 miles long. George W. Marston, San Diego, is Pres. Noted on March 30.

SIKESTON & SOUTHEASTERN.—Green B. Greer, Sikeston, Mo., has stated that this railway will run from Sikeston to Hickman, Ky., about 30 miles. Survey will begin about May 1.

TORONTO & HAMILTON.—Bids are asked by Frederick Nicholls, Pres., until noon, May 1, at Toronto, Ont., for the grading, culverts, masonry bridges and other work between Toronto and Niagara Falls on the line of this road. Plans and profiles may be obtained at the company's engineering department, Pacific Bldg., Scott and Front Sts., Toronto.

UNION RY. (OF PITTSBURG).—We are informed that about two miles have been graded and line built and operated as coal branch, of the proposed 6½-mile extension from point near Duquesne, Pa., Work of grading is in progress by company's forces. Contracts for small portions of remaining 4½ miles may be let later although it is intention of company to construct as much of the extension as possible with its own forces and equipment. James H. Reed, Carregie Bldg., Pittsburg, is Pres. E. C. Brown, Port Perry, Pa., is Engr. M. W.

WASHINGTON RY.—Supplementary articles have been filed by this company. E. E. Calvin, Gen. M[gr.] Oregon Ry. & Navigation Co., Portland, Ore., is an incorporator. Company will build new lines of railway and the following are planned: From the constructed line of the O. R. & N. Co. near Touchet, Wash., in a northerly and eastern direction to Prescott Station, on the O. R. & N. Co.'s line; thence by the most eligible route in a northeasterly direction to Covello, Wash. A line from Dayton, Wash., in a general southeasterly direction, thence along the most eligible route to a point on the state line between Oregon and Washington to be selected. A line from Pendleton, Ore., on the O. R. & N. Co.'s line in a southeasterly direction to a point on the headwaters of Birch Creek. A line from the O. R. & N. Co.'s line at or near Pomeroy, Wash., in an easterly direction to a point on Snake River at Vineland, Wash. A line from a point in Idaho near the junction of the Clearwater River with the Snake River, thence along the valleys of the Clearwater River, and of the south and middle forks thereof to a point on the boundary line between Idaho and Montana, near Lolo Pass, with a branch leaving the line from some suitable point in the Valley of the Clearwater or south fork, and extending through Camas Prairie to Mount Idaho.

WATERTOWN TRANSPORTATION CO.—W. H. Rowe, 503 South Elm St., Watertown, S. Dak., informs us that contracts will be let about May 1, for building one bridge; two terminal buildings; also for 14,000 ties, 500 tons of 60-lb. rails, grading 15,000 yds. earth. Mr. Rowe desires prices on steam equipment and supplies. Noted in full on March 23.

WESTERN ALLEGHENY.—H. T. Porter, Ch. Engr., Greenville, Pa., states that contracts for an extension of this road, which is operated in connection with the Pittsburg & Lake Erie, from Queen Junction to New Castle Junction, Pa., have been let as follows: From Queen Junction to Isle P. O., 6.7 miles, the grading, masonry, etc., will be done by the company. From Isle P. O. to the west side of Slippery Rock Creek, 8.1 miles, the contract for grading, masonry, etc., has been let to the THOMAS & VILLELLA CO., of Pittsburg. From the West side of Slippery Rock Creek to New Castle Junction, 15 miles, the contract for grading, masonry, etc., has been let to F. A. MASELLI & CO., of Pittsburg. Emmet Queen, Pittsburg, is Pres.

WESTERN OHIO.—The CLEVELAND CONSTRUCTION CO., of Cleveland, O., has been awarded contract for building line from Cleveland to Findlay.

WISCONSIN.—L. F. WAKEFIELD, of Wakefield & McCrory, Sioux City, Ia., has contract to build seven miles of railway from Cornucopia.

STREET AND ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

WAREHOUSE POINT, CONN.—H. S. Newton, Gen. Supt., Hartford & Springfield Streets Ry. Co., writes us that this company is contemplating an addition of about 12 miles, running from East Side Connecticut division through Ellington, Broad Brook and Rockville.

SHAMOKIN, PA.—We are informed that the Shamokin Extension Electric Ry. Co. is not quite ready to ask for bids for constructing new line. Previously noted.

STROUDSBURG, PA.—The Stroudsburg & Wind Gap Electric Ry. Co. will build a new line from this place to Wind Gap, Pa. Power house will be erected. E. P. Arbogast, Engr., Stroudsburg, is in charge.

HUNTINGTON, W. VA.—It is stated that the Camden Interstate Ry. Co. will extend its lines to Hanging Rock, O. Cost about $60,000.

MANNINGTON, W. VA.—We are informed that the Mannington Light & Power Co. has just started surveys for an electric railway in Mannington and suburbs. The company propose to have three to five miles in operation by Oct. 1. L. O. Carr, Ch. Engr.

SISTERSVILLE, W. VA.—An electric railway will be built from this city to New Martinsville by way of Point Pleasant Creek. W. W. Givens can inform.

CANTON, MISS.—An electric railway will be built from this city to Yazoo City, a distance of 22 miles. A. P. Cameron is principal promoter.

GULFPORT, MISS.—The Gulfport & Mississippi Coast Traction Co. has been incorporated with $1,000,000 cap. stock. Money to complete the road has been subscribed. The road will run from Gulfport eastward through Biloxi, and from Gulfport westward through Pass Christian, with an extension north and south through Gulfport, a total distance of 25 miles. Specifications for power plant have not been completed. Incorporators: J. T. Jones, of Gulfport, Walter White, of Biloxi, and others. Previously noted.

OWENSBORO, KY.—The Owensboro Street Ry. Co. is in the market for five seven-ton cars of the bottom dump style for hauling coal. S. C. Ray is Gen. Mgr.

FOSTORIA, O.—F. W. Adams, Gen. Mgr., Toledo, Fostoria & Findlay Ry. Co., informs us that the contract for grading and track laying 17 miles extension to line, has been awarded to KLEINMAN & CO., of Findlay, O.

LANSING, MICH.—W. E. TENCH & CO., of Detroit, Mich., has been awarded contract for building new six-mile belt line here, to be known as the Lansing Manufacturers' line.

LANSING, MICH.—The organization of the Lansing & Jackson Interurban Electric Ry. Co. for construction and operation of a line between the two cities has been completed. Capital $1,000,000. Myron W. Mills, of Port Huron, Mich., is Pres.

CHICAGO, ILL.—The Chicago, Joliet & Kansas City R. R. Co., with principal offices in Chicago, has been incorporated with $1,000,000 cap. stock. A trolley line is to be constructed from Chicago to Joliet.

CHICAGO, ILL.—As was stated in our issue of April 6, this city is taking bids until July 1 for the construction and installation of a system of municipal street railways, the official advertisement appearing in this issue of the Engineering News.

EAST ST. LOUIS, ILL.—The Alton, Granite & St. Louis Ry. Co. has asked City Council to pass an ordinance, granting them the privilege of constructing and operating an electric railway on Eighth St. Jas. Porter is Pres., Alton, Ill.

SIOUX FALLS, S. DAK.—Articles of incorporation have been filed with Secretary of State for City Ry. Co. at Sioux Falls, with a capital of $500,000; incorporators: J. R. Sheeley, Osceolo, Ia.; G. W. Rhine, Tore Tiegen, Sioux Falls. The purpose of company is the construction of a city and suburban electric line of 20 miles at Sioux Falls and in surrounding country, to extend into the counties of Minnehaha, McCook, Turner, Lake, Moody in South Dakota, and Rock in Minnesota, and Lyon in Iowa. The company will supply electric power to consumers as well as operate an electric railway.

KANSAS CITY, MO.—The Kansas City & Leavenworth electric railroad, a 30-mile trolley line connecting the two cities, was sold to Clarence S. McClelland, of Mount Vernon, N. Y., who represents an Eastern syndicate, which will extend the line to Atchison, Kan., and St. Joseph, Mo.

LITTLE ROCK, ARK.—We are informed that the work of surveying Little Rock & Hot Springs Electric Railway will commence in a few weeks; details not quite completed. L. Garrett, Gen. Mgr., Little Rock.

BRYAN, TEX.—The Bryan College Electric Railway Right of Way Co. has been chartered here to construct an interurban railway between Bryan and Agricultural and Mechanical College. Incorporators: N. H. Brown, J. W. Fouts and A. W. Wilkerson.

LOCKHART, TEX.—A. B. Storey, of Lockhart, and other local business men are interested in the project of building an electric railway from Lockhart to a point on the proposed San Marcos-Luling line, about six miles in length. Money has been raised to make the preliminary survey.

MUSKOGEE, IND. T.—Ira L. Reeves, Pres. Muskogee Electric Traction Co., informs us that work will be started at once by the company on the extension to Arkansas River Park, a distance of four miles. W. M. Price, Ch. Engr., Muskogee.

BAKER CITY, ORE.—Isidor Fuchs, W. S. Bowers and A. S. Shockley have incorporated the Baker City & Suburban Electric Ry. Co., with capital of $25,000. Company is empowered to build and operate street car lines within limits of Baker City, also suburban lines in every direction.

LOS ANGELES, CAL.—We are informed that all bids received March 21, by Board of Supervisors, for an electric railway franchise on Indiana St., were rejected.

LEWISTON, IDAHO.—Col. Judson Spofford, Pres. Lewiston & Southeastern Electric Ry. Co., informs us that the survey has been made and right of way secured for this line, and that contracts will probably be let this season. The road will be 110 miles long, passing through 14 towns. Col. Judson further states that this line may become the Idaho North & South road and will be aided by the state, in this case it will be 319 miles.

BRANTFORD, ONT.—The Brantford & Woodstock Ry. Co. has been incorporated to build an electric line from Brantford to Woodstock. Directors: Lloyd Harris, John Muir, of Brantford; Malcolm Douglas, of Woodstock, and others.

WALKERVILLE, ONT.—W. F. Brown, Gen. Mgr. Windsor & Tecumseh Electric Ry. Co., writes us that the preliminaries having been completed for construction of line and the company is now in the market for power and electric machinery, supplies and material of all kinds. Work of construction was started April 3.

LIGHT, HEAT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

LOCKPORT, N. Y.—The Iroquois Construction Co., 11 Pine St., New York, is reported to have sublet to the ARCHBOLD-BRADY CO., of Syracuse, the contract to build transmission lines for the Niagara, Lockport & Ontario Power Co. from Niagara Falls to Lockport and Rochester; and from Lockport to Buffalo. Noted previously.

NEW YORK, N. Y.—Bids are asked until April 20, 2 p. m., for construction of an electric lighting station and equipment at Tompkins St. and Delancey Slip, for lighting Williamsburg bridge. Geo. B. Best, Comr. of Bridges.

POTSDAM, N. Y.—This village has voted to issue bonds for $40,000 to install a municipal electric lighting plant. J. P. Bonney is Village Treasurer. Noted fully on March 30.

SYRACUSE, N. Y.—The Syracuse & South Bay Ry. Co. is having plans prepared for a power house.

WATKINS, N. Y.—Bids are asked by Board Water and Sewer Commissioners, Charles M. Woodward, Secy., until April 25 for work, apparatus and material for municipal electric light and pumping station. (Advertised, Engineering News.)

ATLANTIC CITY, N. J.—J. SIMS WILSON, 1125 Brown St., Philadelphia, has been awarded contract for power house for the Philadelphia & Reading Ry. Co. Noted on March 30.

WILDWOOD, N. J.—Bids will be received soon, it is said, for a gas plant for the Oxford Gas Co. A. T. Woodman, Real Estate Trust Bldg., Philadelphia, is Engr.

PHILADELPHIA, PA.—HORN & BRANNEN, 427 North Broad St., are stated to have secured the contract for electric light and gas fixtures for the Northeast Manual Training School, at $9,950.

WILLIAMSPORT, PA.—The Lycoming Electric Co. will soon have plans drawn for an electric power plant in this city. Bids for equipment are being received. E. H. Davis is Mgr.; J. O'Tool is Ch. Engr.

WASHINGTON, D. C.—Bids are asked until 2 p. m., May 3, for lighting portions of public grounds in this city during year ending June 30, 1906, with high candle power gas lights. Col. Chas. S. Bromwell may be addressed.

CAPE CHARLES, VA.—It is announced that no bids were received on April 3 for the electric light franchise, and the time for receiving bids has been extended 60 days. I. J. Burbage is Town Clk.

BAMBERG, S. C.—See under Water-Works.

ST. AUGUSTINE, FLA.—St. Augustine Gas & Electric Light Co. is reported to have awarded contract for the installation of an electric light plant.

CARBONHILL, ALA.—J. S. Shannon, Chn. Com., states that he will receive bids and estimates for electric light plant and equipment.

NASHVILLE, TENN.—The Nashville Ry. & Light Co. may spend $100,000 in improving its power plant this spring. John P. W. Brown is Supt. Lighting Dept., Wilcox Bldg.; W. Y. Cameron is Ch. Engr.

SHELBYVILLE, TENN.—Water-works and electric light plant will be built. D. G. Shepard, W. P. Cooper and J. M. Shofner are a committee in charge. $40,000 of bonds may be issued.

LOUISVILLE, KY.—The Pennsylvania Ry. Co. will erect an electric light plant on its property in this city; also an addition to its roundhouse and a pumping station. Plans for the improvements are being prepared by the company's engineers in Columbus, O. Cost, about $35,000. W. M. Murdock is Asst. Engr., at Columbus.

ABBEVILLE, LA.—R. C. Hutton, Engr., Laurel, Miss., has stated that the citizens of Abbeville, on March 28, voted to issue $45,000 of bonds for water-works, a sewer system and electric light plant.

HOMER, LA.—An electric light plant and water-works system are under consideration.

LAKE CHARLES, LA.—Bids are asked until noon, April 19, for constructing an electric light plant; also for a 20-year franchise for maintenance of this plant. C. H. Winterthaler, Mayor.

MERIDIAN, MISS.—Bids are asked until May 1 for furnishing 2,0 1,200-c. p. arc lights for a period of five years, from May 1, 1906; also for 200 or more alternating current inclosed arc lamps, 6.6 amperes each potential of not less than 72 volts between terminals of each arc lamp, and an apparent wattage of 475 apparent watts for each lamp. J. H. Rivers, Mayor; I. R. McElvoy, Cy. Clk.

BARNESVILLE, O.—Bids are asked until April 20, 6 p. m., for furnishing and maintaining arc lights, incandescent electric lights and gas lights in this village. E. M. Wilkes, Clk.

CLEVELAND, O.—The Cleveland Electric Ry. Co. will enlarge its power house on Superior St. Contracts for new equipment have been given to the ALLIS-CHALMERS CO., of Milwaukee, Wis., and to WESTINGHOUSE ELEC. & MFG. CO., Pittsburg. E. J. Cook is Ch. Engr.

DAYTON, O.—The Dayton Electric Light Co. have merged interests in new company, to be known as the Dayton Lighting Co., with $2,000,000 capital. It is said that $1,000,000 will be spent for new electrical equipment. R. E. De Weese is Secy.

MISHAWAKA, IND.—Water power interests along St. Joseph River will be merged and a company organized under the name of the Indiana and Michigan Electric Co., with $20,000,000 capital. It will control about 60,000 HP. C. A. Chapin, of Chicago, is interested.

LA CROSSE, WIS.—Contract for stone work for the Wisconsin Light & Power Co. has been awarded to CHARLES W. NOBLE, of Lacrosse.

LAMAR, WIS.—Charles Hall, of Oconto, Wis., informs us that he has purchased plant of Lamar Light & Water Co. It is reported that the plant will be enlarged.

MILWAUKEE, WIS.—Council recommends acceptance of an ordinance providing for issuance of $150,000 of bonds for a municipal electric lighting plant, as part of the July bond issue.

DES MOINES, IA.—Bids are asked until April 26 for lighting public parks. W. W. Wise, Chn. Bd. Public Works.

MINNEAPOLIS, MINN.—The Minneapolis General Electric Co. will soon let contracts for work in connection with utilizing the water power of St. Croix River, at St. Croix Falls, between the villages of St. Croix Falls and Taylor's Falls, Minn. It is planned to generate 24,000 HP. Estimated cost, $3,000,000. Henry R. Hayes is Secy.

KINGMAN, KAN.—W. K. Palmer, Consult. Engr., 718 Dwight Bldg., Kansas City, Mo., has completed plans and specifications for a modern hydro-electric power station for the Kingman Light & Power Co., of Kingman. The plant will be operated by means of water power derived from the Ninnescah River and a reserve power installation in the shape of a gas engine and suction gas producer.

LINDSBORG, KAN.—A. A. Abercrombie, City Clk., writes that bids are asked until April 20 for the construction of an electric light plant. Est. cost, $29,000. Geo. C. Morgan, Chicago, Ill., is Engr.

LYONS, KAN.—The Lyons Electric & Mfg. Co. will receive bids about May 10 for machinery for an electric light plant which will cost from $8,000 to $10,000. Company will construct plant with its own forces, it is said.

HASTINGS, NEB.—GEORGE E. DEAN, of Albion, Mich., has been awarded a contract for a new gas plant here. John Ott is Mgr.

MADISON, MO.—Proposition to issue $5,000 of bonds for a municipal electric light plant has been carried.

MARSHALL, MO.—A. H. Bickmore & Co., 30 Pine St., New York, have purchased plant of Marshall Gas Light Co. and plant owned by W. E. McCully, at Macon, Mo. The plants will be consolidated and improved.

HONDO, TEX.—The board of county commissioners has granted a franchise to Holloway & Thallman to install an electric light plant at Hondo.

HOUSTON, TEX.—The Houston Gas Light Co., it is reported, will at once arrange for the expenditure of $50,000 for improvements and enlargements to its gas plant and lighting system. Betterments will include installation of duplicate generators to cost $20,000. Noted on March 16.

MUSKOGEE, IND. T.—The Muskogee-Grand River Power Co. has engaged H. von Schon, 6.3 Wayne County Bank Bldg., Detroit, Mich., as consulting engineer, to prepare plans for water power development. The company probably will arrange for an initial development of 10,000 HP. C. N. Haskell is Pres. of the company.

TACOMA, WASH.—The Tacoma Gas & Electric Co. will commence work about April 15 on erection of a steel tank gas holder to have capacity of 5,000,000 cu. ft., and cost about $40,000. R. D. WOOD & CO., of Philadelphia, have contract.

ANAHEIM, CAL.—A propositon for the reconstruction of the city power plant has been submitted to the city council. It is contemplated to install an electric plant of 150 KW. capacity and a pumping plant. A steel storage tank with 60-ft. tower has also been recommended. The cost of such a plant will be about $49,000.

SAN BERNARDINO, CAL.—The Home Gas Co. has let contract for construction of its plant in First St. to BARTH & McGILLIVRAY, of Corona. Contracts have been let for laying nine miles of gas mains.

TONOPAH, NEV.—We are informed that the Tonopah Mining Co., of Nevada, has awarded contract to CHARLES C. MOORE & CO., of San Francisco, for a complete steam power plant, with electrical generation; transmission line to mines; a substation with distribution of power to the various properties of company; electrical equipment of mines for hoisting; compressors, ore houses, shops, etc. F. A. Keith is Gen. Mgr. Main office is at 372 Bullitt Bldg., Philadelphia.

PROVO CITY, UTAH.—See under Water-Works.

PORT ARTHUR, ONT.—Bids are asked until May 5 by Arthur J. Mitchell, Secy. Port Arthur Electric Ry. Co., for purchase of company's electric plant.

VICTORIA, B. C.—A contract for the electrical equipment of the Lulu Island Ry. has been awarded to the CANADIAN GENERAL ELECTRIC CO.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

ELMIRA, N. Y.—Fred Leach, Cy. Engr., informs us that the bill to issue $55,000 in bonds for constructing bridge at Lake St. has been passed by Legislature but has not yet been approved by Council or signed by Governor, and nothing will be done toward constructing bridge for some time.

NEW YORK, N. Y.—Snare & Triest, 39 Cortlandt St., were the lowest bidders, at $102,600, for constructing Brooklyn Bridge terminal. The contract will probably be awarded to lowest bidder in about two days.

ALBANY, N. Y.—Bids are asked by N. V. V. Franchot, State Supt. Pub. Wks., until April 19, for constructing superstructure of lift bridge over Oswego canal at Willow St., Syracuse, Onondaga County.

NIAGARA FALLS, N. Y.—A bill has been introduced into Legislature to incorporate Niagara Frontier Co., with Capital of $2,000,000. A bridge will, it is believed, be built at north end of city. J. P. Murray and O. E. Osler, of Toronto, Ont., are reported as being interested.

SCRANTON, PA.—Bids will be received, it is stated, until April 15 for erecting five bridges in Lackawanna County. E. A. Jones, County Controller.

RALEIGH, N. C.—The contract to build bridge at Lillington has been awarded to Burlington branch of VIRGINIA STEEL BRIDGE CO., represented by P. H. Norcross, C. E.; cost $40,000.

CARTERSVILLE, GA.—We are informed that owing to division among citizens interested as to location of bridge to be constructed over Etowah River, near Kingston (bids opened April 5), the contract was not let. L. P. Gaines, Ch. Bd. County Comrs., Cave, Ga.

DECATUR, ALA.—W. J. Nesbit, Secy. Business Men's League, informs us that plans and specifications are being drawn for an iron bridge over Tennessee River at Decatur. Est. cost $200,000 to $225,000. Previously noted.

BIRMINGHAM, ALA.—Bids are asked by the Board of Revenue of Jefferson Co., until May 4 for the construction of nine small iron bridges. John T. Reed, Pres. (Advertised, Engineering News.)

KNOXVILLE, TENN.—We are informed that plans for concrete viaduct over Clinch Ave., will be submitted on April 10, and bids will be asked for. S. J. Moreland, Cy. Engr.

SOMERSET, KY.—We are informed that the successful bidder for improving two bridges for Cincinnati Southern R. R. Co. was the AMERICAN BRIDGE CO. The work consists of changing two bridges near Erlanger, Ky., to double track steel bridges, at a cost of $350,000.

CINCINNATI, O.—Bids are asked by County Commissioners until May 5 for constructing wrought iron and steel superstructure of lift bridge over Miami and Erie Canal at Lockland. Eugene L. Lewis, County Audr.

CLEVELAND, O.—Bids will be received by County Commissioners April 29, for constructing concrete and stone masonry culverts, abutments and retaining walls in county. Wm. H. Evers, County Engr.

CLEVELAND, O.—Arrangements for building a high level bridge through Washington Park are practically complete. The city will bear one-half the expense and the remainder will be divided between the county and village of Newburg. J. E. Breen is Cy. Engr.

DAYTON, O.—J. C. Morrison, of Dayton, was the lowest bidder, we are informed, for re-erecting old bridge at Summit St. (bids opened April 4), at $4,000; Geo. R. Hively, of Dayton, was lowest bidder for constructing abutment walls, at $4.46 per cu. yd.

TOLEDO, O.—The plans prepared by Board Public Service for building of bridge across Swan Creek at Green St. have been accepted by War Department, and the structure will be constructed at once. Cost $2,000. Frank I. Consaul is Ch. Engr. of Bd.

BLUFFTON, IND.—Bids are asked by C. S. Brineman, County Audr., until May 3 for constructing 14 concrete steel bridges.

FORT WAYNE, IND.—A 320-ft. covered wooden bridge across Maumee River in this (Allen) county was destroyed by fire. Loss $20,000.

WABASH, IND.—It is stated that the date of opening of bids for constructing a concrete or steel bridge over Eel River, near Stockdale, has been extended from April 6 to May 4. W. S. Davis, County Audr.

CADILLAC, MICH.—This city voted April 4 to issue bonds for $35,000 to build boulevard bridge.

MANISTEE, MICH.—Geo. B. Pike, Cy. Engr., writes us that the contract for removing present drawbridge at Maple St. and building new one was awarded to SCHERZER ROLLING LIFT BRIDGE CO., Monadnock Bldg., Chicago, Ill. The Scherzer design is double leaf deck; 70 ft. clear channel, equipped for electric and hand power operation; approaches, retaining walls and all complete, for $36,000.

ELK RIVER, MINN.—We are informed that the contract for constructing bridge here over Mississippi River, as advertised in Engineering News, was awarded April 7 to W. F. CHADBOURNE, of Elk River, for $21,950. C. A. P. Turner, Engr., 816 Phoenix Bldg., Minneapolis.

LINCOLN, NEB.—It was stated that bids would be opened by County Commissioners April 5 for bridge across Spillman Creek. W. L. Dawson, County Arch., informs us that no such bridge has been advertized for by this county.

GREENWOOD, ARK.—Open competitive bids will be received at West entrance to Court House at Greenwood, on May 1, for furnishing all material and labor for erecting two steel spans of 56 ft. each, and for erecting one steel bridge, main span 80 ft. and two approaches of 32 ft. each. Wm. A. Falconer, County Judge, Fort Smith, Ark. (Advertised, Engineering News.)

WACO, TEX.—County Commissioners have under consideration the draining of a large body of land lying on east side of Brazos River. A deep canal with bridges at all crossings is contemplated.

LOS ANGELES, CAL.—We are informed that plans will be ready in about 60 days for bridge at Seventh St., to be built jointly by city and street railway. The structure to be plate girder with roadways and places for street cars.

WINNIPEG, MAN.—Three bridges will probably be erected across Red River, at this point. H. N. Ruttan is Cy. Engr.

WINNIPEG, MAN.—The contracts for large portion of concrete work on Central Division of Canadian Pacific have been awarded to GRANT, SMITH & CO., of Minneapolis, Minn.

MILL COVE, N. B.—The contract for building Red Bank bridge over Northwest Miramichi River, North Cumberland County, has been let to J. D. McLAUGHLIN, of Mill Cove, for $15,000. The structure is to be a seven span Howe cross span covered bridge, each span to be 140 ft. long.

TORONTO, ONT.—The International Terminal & Bridge Co. has been incorporated with $100,000 cap. stock, to build a bridge over Rainy River from Fort Francis to International Falls, Minn., and for other purposes. Incorporators: Alexander Mackenzie, Toronto; W. Johnson, Ottawa; E. W. Backus, Minneapolis, Minn, and others.

MONTREAL, QUE.—The Canadian Pacific will soon call for tenders for three steel bridges. C. N. Monsarrat is Engr. of Bridges, Montreal.

BATTLEFORD, SASK.—There are two bridges to be built on the Battleford-Edmonton grade of Canadian Northern Railroad, one at crossing of North Saskatchewan at Battleford, and one at Fort Saskatchewan. Temporary structures will be erected at these two crossings, and the steel spans will be placed on permanent concrete piers later in the year, the tenders for the same being called for during the summer. M. H. McLeod is Ch. Engr., Winnipeg, Man.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS—Bids are asked until noon, April 17, for building primary school in Dorchester. R. Clipston Sturgis is Bldg. Comr.

BOSTON, MASS.—Bids are asked until 11 a. m., April 29, for fireproof doors and stairways for buildings No. 42 at Navy Yard. Mordecai T. Endicott, Ch. of Bureau Yards and Docks, Washington, D. C. Specifications for this work are on file at New York office of Engineering News.

GREENWICH, CONN.—William G. Rockefeller, 26 Broadway, New York, will build a $700,000 residence here next year, it is said.

BROOKLYN, N. Y.—St. James' Pro-Cathedral parish will erect new buildings to supersede present academy. Rev. Peter F. Donahue is pastor. George H. Streeton, 289 Fourth ave., New York, is Arch.

BROOKLYN, N. Y.—Bids were received on April 4, by Department of Street Cleaning for construction (contract 1) of a stable on block bounded by Flushing Ave., Graham St. and Little Nassau St., as follows: Fuller & O'Connor, 26 Court St., Brooklyn, $321,490; Ryan & McFerran, 106 East 22d St., $321,700; Murphy Bros., 489 Fifth Ave., $337,464; F. W. Carlin Construction Co., 26 Court St., $307,000; D. J. Ryan, 723 Third Ave., $319,000; Kelly & Kelley, 45 East 42d St., $326,557; R. E. Henningham, 26 Court St., $319,750. For installing (contract 2) heating and ventilating apparatus: Baker, Smith & Co., 83 West Houston St., were lowest bidders, at $5,498. For plumbing and gas fitting (contract 3) James Harley, 288 Flatbush Ave., was lowest bidder, at $13,313. For electrical work (contract 4), T. F. Jackson, 592 Columbus Ave., was lowest bidder at $2,061.

BUFFALO, N. Y.—JOHN WILLIAMS, of Buffalo, has contract for new Unitarian church, to be built at Elmwood Ave. and Ferry St. Cost, $90,000. S. W. and A. A. Kemp., Buffalo, are Archs. Henry W. Sprague is Chn. of Bldg. Com.

BUFFALO, N. Y.—Bills, authorizing the city to issue $200,000 of bonds for a new market, have been presented in Assembly by Assemblyman Charles F. Brooks, and in Senate by Senator Louis Fechter.

FORT SLOCUM, N. Y.—Bids are asked by W. J. Davis, Q. M., until April 19, 11 a. m., for steam heating and electric wiring brick double barrack. Plans and specifications for this work at office of Engineering News, New York. (Advertised, Engineering News.)

NEW BRIGHTON, N. Y.—Bids are asked until 11 a. m., April 18, for finishing general interior work (contract No. 7), in Richmond Borough Hall. Also for the following work: Contract No. 8, partitions, screens, cages, etc.; contract No. 9, vacuum sweeping plant; contract No. 10, vaults ,etc.; No. 11, painting, plaster work, walls, etc. George Cromwell, Boro. Pres.

NEW YORK, N. Y.—Bids are asked until noon, April 24, for the second contract for mason, iron, marble, carpenter, elevator and electric work on buildings for College of the City of New York, at 140th St., St. Nicholas Terrace, Amsterdam Ave. and 138th St. E. M. Shepard, Chn. and Charles Putzel, Secy. of Board of Trustees.

Bids are asked until April 19, 3 p. m., for masonry, iron work, concreting, plastering, roofing, galvanized iron work, painting, marble work, plumbing, etc., required for New York County Court-house, in City Hall Park. John F. Ahearn, Boro. Pres.

Bids are asked until April 24, for heating and ventilating work (second contract) for buildings of the College of City of New York.

Bids are asked until April 19, 10.30 a. m., for additions and alterations to quarters of Hook and Ladder Co. 51, at Van Brunt St. and Seabring St., Boro. Brooklyn. Nicholas J. Hayes, Fire Comr.

Bids are asked by C. B. J. Snyder, Supt. School Bldgs. Bd. Education, until April 17, 11 a. m., for general construction of additions to schools in Borough of Brooklyn.

NEW YORK, N. Y.—Bids are asked until May 10, for elevator equipment for U. S. custom house. Cass Gilbert, 79 Wall St., is Arch. James Knox Taylor, Supervising Arch., Washington, D. C.

ROCHESTER, N. Y.—Contract for construction of State armory has been awarded to the HUDSON VALLEY CONSTRUCTION CO., of Troy, N. J., at $186,000. Other contracts were awarded, as follows: Structural steel, BUFFALO STRUCTURAL STEEL CO., Buffalo, at $33,414; heating, J. S. GOODENOW, Utica, at $7,840; plumbing, BARR & CREELMAN, Rochester, at $10,035; wiring, gas piping, etc., STANDARD ELECTRIC CONSTRUCTION CO., Rochester, at $9,990. Communications, we are informed, may be addressed to Charles P. Boland, Gen. Mgr. Hudson Valley Construction Co., at 208 Times Bldg., Troy, N. Y.

NEW YORK, N. Y.—Bids are asked until April 24, 11 a. m., for general construction of new public school No. 3, on Grove St. Bids will be received at same date for interior work, etc., in Brooklyn Borough. C. B. J. Snyder, Supt. Bldgs., Bd. Education.

ALLEGHENY, PA.—A. M. Schoyer, Gen. Supt. Pennsylvania Ry. (Northwest system), at Pittsburg, has announced that construction of new station at Allegheny will be begun at once. Price & McLanahan, 1624 Walnut St., Philadelphia, are Archs. It will cost $250,000.

HOLLIDAYSBURG, PA.—The Blair County Commissioners have awarded the contract to G. W. HUGHES & SONS, of Hollidaysburg, at $106,500, for building addition to court-house.

POTTSVILLE, PA.—A. F. Smith, Arch., Baer Bldg., Reading, Pa., has invited bids on construction of an office building, to cost about $150,000, for the Philadelphia & Reading Coal & Iron Co.

PHILADELPHIA, PA.—E. F. FONDER & CO., Land Title Bldg., have the contract for a 3-story school building at 32d and Berks Sts., for city. Cost, $80,000.

PITTSBURG, PA.—JAMES STEWART & CO., Pittsburg, have been awarded contract for annex to Colonial Hotel, on Penn Ave. It will be 12 stories high, and cost about $400,000.

M. J. Sturm, Arch., 84 La Salle St., Chicago, has prepared plans for a hospital building for St. Joseph's Hospital. It will cost $125,000.

ALLENTOWN, PA.—It is recommended by Senate Committee on Appropriations that $900,000 be provided for completion of new State Homeopathic Hospital for Insane.

BALTIMORE, MD.—GEORGE BUNNECKE & SONS, St. Paul and Saratoga Sts., have the contract to erect a building for the German Bank at Baltimore and Holliday Sts. Cost, $100,000.

William B. Ehlen, 30 West Franklin St., has announced that he will build an 8-story apartment house at Charles and Read Sts. Cost $225,000.

BALTIMORE, MD.—J. W. BISHOP CO., 683 Atlantic Ave., Boston, Mass., has contract for an addition to residence of Mrs. Henry Barton Jacobs, 11 West Mt. Vernon Pl. Cost, $100,000. J. R. Pope, 1133 Broadway, New York, is Arch.

Daniel Donnelly, 2310 East Preston St., has awarded contract to J. M. COULLING, 1824 East Madison St., for the construction of 17 dwellings to be erected on Hoffman St., near Monford Ave.

George A. McCauley, 533 North Calhoun St., has awarded contract to ADOLPH MEYER, 424 Lorraine Ave., for the construction of 56 dwellings on Whitridge Ave. and York Road. Structures to be two stories high with basements, each 15 x 48 feet.

The United States Fidelity & Guaranty Co., 16 West Saratoga St., has awarded contract to CRAMP & CO., 407 St. Paul St., for the construction of office building at Calvert and German Sts. Simonson & Pietsch, Archs., 1210 American Building.

Bids will be received by Baltimore & Ohio Ry. Co. about April 25, for its proposed office building at Baltimore and Charles Sts. Parker & Thomas, 612 North Calvert St., and Hale & Morse, 15 Exchange St., Boston, are associated Archs. It will be 13 stories high, 144 x 159 ft.

WASHINGTON, D. C.—RICHARDSON & BURGESS, Colorado Bldg., have been awarded contract for exterior work of McKinley Ohio College, of Government building. Bids for marble and interior work are being received. Henry Ives Cobb, 115 Broadway, New York, is Arch.

It is reported that the International Banking Corporation has had plans prepared by Wood, Donn & Deming, 808 17th St., N. W., for a bank and office building, to cost $100,000.

McMECHEN, W. VA.—Bids are asked by the Board of Education until 3 p. m., April 26, for the construction, complete, of a 15-room school building. W. B. Leach, Pres. Plans, etc., at office of Chas. D. McCarty, Arch., Reilly Bldg., Wheeling. C. L. Evans is Secy., Benwood, W. Va.

WHEELING, W. VA.—Bids are asked until April 25, for Building a school at Glenn's Run. C. D. McCarty, Arch., Wheeling, W. Va.

ELIZABETH CITY, N. C.—ATHENS CONTRACTING CO., Athens, Ga., has contract for the erection of court-house here at $83,000.

FLORENCE, S. C.—Bids are asked until May 6, for installing heating apparatus in post-office and court-house building here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

MACON, GA.—The Mankin Construction Co., Richmond, Va., was lowest bidder on construction of court-house addition here, at $215,000.

MADISON, GA.—Bids are asked until noon, April 20, for building a court-house here. Kirby S. Anderson, Chn. Bd. Roads and Revenues.

MACON, GA.—The First National Bank is said to be interested in plan to build a 10-story office building, at Cherry and Second Sts. Est. cost. $100,000.

BIRMINGHAM, ALA.—Cullum Bros. have let contracts for the erection of a row of flats on Avenue I, between 19th and 20th Sts., and for an apartment house at 20th St. and Avenue H, to T. C. THOMPSON & BROS. Cost, about $250,000.

NEW ORLEANS, LA.—JAMES STEWART & CO., of Pittsburg, have been awarded contract for rebuilding Stuyvesant docks for Illinois Central Ry. Co. Contract for steel work was awarded to AMERICAN BRIDGE CO., 100 Broadway, New York. This contract includes warehouses and sheds.

ST. JOSEPH, LA.—The Police Jury of Tensas parish, Louisiana, F. H. Curry, Pres., will receive bids until April 24, for the erection of court-house and jail. P. H. Weathers, Arch.

KNOXVILLE, TENN.—Morgan & Dillon, Archs., Prudential Bldg., Atlanta, Ga., will have plans ready for bids about April 15 for the Mechanics' National Bank building, at Knoxville.

DAYTON, O.—Frank M. Andrews, Arch., Conover Bldg., has prepared plans and will receive bids until April 15 for a 3-story auditorium building for the National Cash Register Co. Brick. Probable cost, $200,000.

STEUBENVILLE, O.—Bids will be received by Emile M. Ulrich, Arch., until April 29 for building Church of St. Peter.

DELAWARE, O.—FITCH & SON, Sandusky, O., have the contract to erect the gymnasium for the Ohio Wesleyan University, at Delaware, at $77,900.

SOUTH BEND, IND.—It is reported that bids will be received soon for a Y. M. C. A. building to be erected here. It will cost $250,000. S. S. Beman, 203 Michigan Ave., Chicago, is Arch.

INDIANAPOLIS, IND.—Clarence Martindale, Arch., Indianapolis Trust Bldg., has prepared plans for Girls' Industrial School. Commissioners will advertise for bids. Amos Butler, Room 78, State House, is Secy. Comn. Appropriation is $235,000.

INDIANAPOLIS, IND.—John W. McCardle, New Richmond, Ind., is Chn. of Comn. which will receive bids for erection of South Eastern Insane Asylum. The appropriation is $560,000.

INDIANAPOLIS, IND.—Board of Trade will erect a $165,000 building on the present site. Clarence L. Stiles is Arch.

KOKOMO, IND.—Board of County Commissioners, at April session, will decide question of building a new $200,000 court-house.

KOKOMO, IND.—Bids will be received soon for a modern city hospital.

FLINT, MICH.—Bids are asked until April 27 for construction (except heating apparatus) of post-office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

CHICAGO, ILL.—Bids are asked until noon, April 14, for building school additions, etc., for Board of Education. T. J. Waters, Ch. Engr., 714 Tribune Bldg.

CHICAGO, ILL.—F. M. Barton, Arch., 169 Jackson Boulevard, is reported to be taking figures on an apartment building, to be erected at Homan Ave. and Madison St., for Dr. A. Lagorio, of 228 Dearborn Ave.

J. L. Kesner, Mgr. of "The Fair," will erect a $500,000 office building at Wabash Ave. and Madison St.

D. H. Burnham & Co., Archs., Railway Exchange Bldg., have completed plans and specifications for Mercantile building, to be erected on Wabash Ave., near Washington St., for Marshall Field & Co., State and Randolph Sts. It will be 12 stories high, 146 x 150 ft., built of brick and stone, steel, fireproof construction. Bids will be received, it is reported. Probable cost, $1,000,000.

Plans are in preparation for a new building to replace police station house at 539-549 South State. Appropriation is $150,000.

CHICAGO, ILL.—The proposition to issue $[illegible],000,000 of bonds for the erection of a new court-house for Cook county has been carried. Edward J. Brundage is Pres. County Comrs.

EAST ST. LOUIS, ILL.—Mauran, Russell & Garden, Archs., Chemical Bldg., St. Louis, Mo., have plans ready for figures for a 6-story bank and office building, 121 x 45 x 100 ft., for the First National Bank. J. C. Riper, Pres. East St. Louis. It will be of brick and fireproof construction. Cost, $100,000.

JACKSONVILLE, ILL.—Bids are asked until May 1, for construction complete, of post-office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

SUPERIOR, WIS.—Charles W. Gindele, of Chicago, submitted lowest bid, at $168,668, for construction of post-office here.

CRESCO, IA.—Bids are asked until 7 p. m., April 28, for erection of a high-school building at Cresco. C. J. White, Secy. School Board.

ST. PAUL, MINN.—Booth & Co. will erect a 9-story storage warehouse at foot of St. Peter St. Cost $200,000.

FT. RILEY, KAN.—Capt. Leon S. Roudiez, Constructing Q. M., is reported to have received plans and specifications for the construction of a new hospital at this post. Estimated cost, $125,000.

LARAMIE, WYO.—Bids are asked until May 11, by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for construction (except heating apparatus) of post-office here.

FORT ASSINNIBOINE, MONT.—Bids are asked until May 11 for construction of basement and smoke-stack, and installation of heating plant and plumbing system in hospital, at Ft. Assinniboine. Capt. J. B. McDonald, Q. M. (Advertised, Engineering News.)

ST. LOUIS, MO.—A 15-story building will be erected at 14th St. and Washington Ave. Farrar & Tate, Wainwright Bldg., are interested. Estimated cost, $1,000,000.

ST. LOUIS, MO.—JAMES BLACK MASONRY & CONTRACTING CO., of St. Louis, is said to have contracted for addition to Carleton building. James W. Black is owner.

MAGNOLIA, ARK.—Bids are asked until April 27, for erection of Columbia county court-house. William S. Hull, Jackson, Miss., is Arch. Bids were to have been received for this work on March 12.

DENVER, COLO.—Edwin Hewitt will erect a 6-story building at 15th and Arapahoe Sts., at cost of $100,000.

SEATTLE, WASH.—THE WALDORF BUILDING CO. has the contract for the Kall-Ila apartment building. Cost, $200,000. H. Ryan, Globe Block, is Arch.

MARYSVILLE, CAL.—R. DEWAR, of San Francisco, Cal., has contract for a library for this place, at $66,300.

PRESCOTT, ARIZ.—Bids are asked until May 12 for construction, plumbing, steam heating and electric wiring of 18 buildings. Capt. Chas. W. Alcutt, Jr., Q. M., U. S. A. (Advertised, Engineering News.)

BOISE, IDAHO.—It is announced that the Boise Capital Building Commission has been authorized by legislature to expend $350,000 for erection of a capitol building at Boise. The Commission invites bids for designs for such building, including the following: One front and one end elevation, one perspective taken from westerly corner, one longitudinal section and three floor plans. Drawings to be made in India ink, rendered with brush or pen. Designs are to be drawn to scale of ½-in. to foot, and sent to Hon. W. H. Gibson, Secy. of State, Boise, Idaho, to whom also communications for information may be sent. Designs will not be subject to inspection until June 12, 1905.

POCATELLO, IDAHO.—Bids are asked until April 25, 1 p. m., for construction of wing to main building of Academy of Idaho; also for other buildings. James F. Kane is Pres. Bd. Trustees.

STE. ANNE DE BELLEVUE, QUE.—Sir Wm. C. MacDonald, of Montreal, has given to council of public instruction about $3,000,000 with which to erect a normal school at Ste. Anne de Bellevue, with two large residential buildings, and to erect an extensive agricultural college.

WATER SUPPLY AND IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

WATERVILLE, ME.—Bids are asked until April 29 for laying about 58,300 ft. of 6-16-in. pipe, taking up 15,000 ft. of old pipe, reconnecting 650 old services and excavating 1,050 cu. yds. Leonard Metcalf, Engr., 14 Beacon St., Boston, Mass. Specifications may be seen at the office of Engineering News, 220 Broadway, New York, after April 19. (Advertised, Engineering News.)

BOSTON, MASS.—Following bids were received April 6 by John E. Baxter, Q. M., U. S. A., for (1) construction of submarine pipe line and water-works, (2) submarine pipe, and (3) water-works system: C. A. Kenney, New York, (1) $28,500, $32,000; (2) $21,000, $24,500; (3) $7,900. John T. Cavanagh, Quincy, Mass., (1) $35,000; (2) $22,000; (3) $15,000. John T. Langford, Boston, Mass., (2) $24,045; (3) $9,381. Smith & Robinson, New York, (2) $24,989; (3) $10,242. H. W. Phillips, Quincy, Mass., (2) $28,600. Ruggles & Perkins, Boston, Mass., (2) $29,736. Cefalo & Ferguson, Boston, Mass., (2) $29,989; (3) $11,739. Moore & Co., Boston, Mass., (2) $30,000; (3) $10,000. Towsend & Olsen, Boston, Mass., (2) $43,997. Edward B. Roberts, Swampscott, Mass., (3) $9,580. W. B. Bryne, Boston, Mass, (3) $9,700.

FALL RIVER, MASS.—City Water Board is reported to have awarded contract for hydrants for the year to the NORWOOD ENGINEERING CO., of Florence, Mass. The contract for gates and valves was awarded to the FALL RIVER STEAM & GAS PIPE CO., agent for the Champman Co.

BRISTOL, CONN.—We are informed that contract for laying two miles of water main and building new dam for Bristol Water Co., C. L. Wooding, Mgr., has been let to CONDON & PIERSON, Bristol. Bids were received April 1.

MERIDEN, CONN.—We are informed under date of April 7 that Board Public Works is receiving bids, from specified makers, for a 150-HP. boiler to accommodate new pumping engine, contract for which was recently let to BUILDERS IRON FOUNDRY, Providence, R. I. W. S. Clark is Cy. Engr.

OSWEGO, N. Y.—Bids are asked by Water Department, F. W. Dimsby, Secy., until 12 o'clock noon, April 15, for furnishing and delivering cast iron pipe and special castings for Lake Water extensions. (Advertised, Engineering News.)

ONTARIO, N. Y.—Bids are asked until May 11, for construction of water distributing system at Fort Ontario, N. Y. Bids also for labor and material for construction of pump house at same fort. Capt. W. M. Coulling, Q. M., U. S. A. (Advertised, Engineering News.)

PERKINS, N. Y.—See under Light, Heat and Power.

WEST POINT, N. Y.—Bids are asked by Quartermaster, U. S. M. A., until May 5 for furnishing about 3,000 tons cast-iron pipe and special castings. (Advertised, Engineering News.)

WEST POINT, N. Y.—Bids are asked by Quartermaster, U. S. M. A., until May 11 for laying about 32,000 ft. of 36-in. cast iron water pipe. (Advertised, Engineering News.)

ROCKTON, N. J.—We are informed that special election was to be held April 11 to vote on raising funds for erection of water-works.

WASHINGTON, D. C.—Bureau of Yards and Docks, Navy Department, has placed in the hands of the printer a specification upon which proposals will be invited for the construction of a 1,000,000-gallon reinforced concrete reservoir and the installation of a water distributing system at the Naval Station, Guantanamo, Cuba. The pumping engine is to be a 25-HP. oil-burning engine, to be connected to a three-stage centrifugal pump capable of delivering 10,000 gallons of water per hour against a head of 200 ft. when pumped through 2,000 ft. of 6-in. pipe. The estimated cost of the work is $40,000. The contract will allow six calendar months for the completion of the work. The advertisement inviting proposals should appear in about three weeks.

SALEM, VA.—Bids are asked until May 1, for construction of a tank to have a capacity of 150,000 gallons, and the height of 100 ft. from piers to the bottom of the hemisphere, or 148 ft. 3 ins. from piers to top of the cylinder. W. B. Dillard, Chn. W. Comrs.; J. N. Ambler, Engr. (Advertised, Engineering News.)

LEXINGTON, N. C.—Bids are asked until May 3 for the construction of a water-works plant, and furnishing the materials for the same, embracing approximately 10 miles of pipe, stand-pipe, air lift plant, etc. John H. Moyer, Mayor; J. L. Peacock, Clk.; J. L. Ludlow, Engr., Winston. (Advertised, Engineering News.)

BAMBERG, S. C.—A franchise for construction of water-works and electric light plant has been granted to D. J. Howell, Consult. Engr., Huyler Bldg., Washington, D. C., and associates.

YORKVILLE, S. C.—W. O. RAWLS, Supt. W.-W., has been awarded contract for putting down about 3,500 ft. of additional water mains for this place.

CARBON HILL, ALA.—Committee, J. S. Shannon, Chn., has been appointed to negotiate for water-works plant, and is now ready to receive bids on equipment.

CANTON, O.—Following bids were received April 3 by Board Public Service, C. A. Zellers, Clk., for (1) pumping station and (2) stack: Jos. J. Streb, (1) $24,999; Keller E. Huff, (1) $26,946; A. Castell & Co., (1) $28,963, (2) $5,000; Melbourne Bros., (1) $24,200, (2) $6,500; Geo. A. White, (1) $24,888, (2) $4,455; C. M. Kilgore & E. J. Landar, (1) $29,250; Wm. Shaaf, (2) $3,490; M. W. Kellogg & Co., New York, N. Y., (2) $4,486; Alphons Custodis, Chimney Constr. Co., New York, (2) (two bids) $4,775 and $5,150, and Weber Steel Concrete Chimney Co., Chicago, Ill., (2) $4,400; all bidders from Canton unless otherwise stated.

CLEVELAND HEIGHTS, O.—We are informed that this place will secure its water supply, delivered at village limits, from the city of Cleveland. The village will maintain its mains, hydrants, valves, meters, etc., but as yet nothing has been done toward contracting for these. A $25,000 issue of bonds for that purpose was to be sold April 11. W. G. Phare, 402 American Trust Bldg., Cleveland, O., is Village Clk.

CLEVELAND, O.—City has awarded contract for 10,000 ⅝-in. meters (bids received March 29) to NEPTUNE WATER METER CO., Long Island City, N. Y., at $6 per meter.

ASHTON, ILL.—We are informed that no action will be taken for several months toward construction of private water-works here. Supply is to be from deep well, and according to a previous report $8,000 to $12,000 is to be expended. H. A. Bremmer is in charge.

CHICAGO, ILL.—We are informed that Department of Public Works, F. W. Blocki, Comr., has advertised for bids for a 3,000,000-gallon pumping engine and two 80-HP. boilers for the Washington Heights pumping station. Bids will be opened April 26. Specifications may be had upon application. Geo. F. Samuel, Asst. Engr., Bureau of Engineering.

HERRIN, ILL.—D. N. Wilkesson writes us that this place will vote April 18 on issue of bonds for building water-works.

DE PERE, WIS.—Bids are asked until May 4 for the improvements to the water-works plant, consisting of 13,870 ft. of 6-12-in. cast-iron pipe, 22,000 lbs. special castings, 34 fire hydrants, 296 12-in. gate valves, two 50,000-gal. elevated steel tanks and towers, one 50-HP. suction gas producer and gas engine, one 500-gal. triple power pump, two 50,000-gal. concrete reservoirs and 200 or more meters ⅝ to 1 in. W. G. Kirchoffer, Engr., Madison, Wis. (Advertised, Engineering News.)

FAIRMONT, MINN.—We are informed that city voted April 4 on an $18,000 bond issue for extending water-works and improving electric light plant. G. A. Porter is Secy. Comn.

WHITE BEAR, MINN.—This village will receive bids on a water-works plant up to 8 p. m., April 24. Work consists of pipe line and steel tower and steel tank. Plans and specifications will be ready about April 15.

LINDSBORG, KAN.—Bids are asked by Mayor and Council until April 20 for all machinery, apparatus, materials and supplies (except cast iron pipe and special castings) for water and light plant. Bids are to be for materials or for any or all parts of the works. N. J. Thorstenberg, Mayor; G. C. Morgan, Engr., 169 Jackson Boulevard, Chicago, Ill.

TONGANOXIE, KAN.—This place voted on April 3 to issue $14,000 of bonds for water-works construction; plans are being prepared by Burns & McDonnell, Consult. Engrs., Kansas City, Mo. S. A. Evans is Mayor.

WAVERLY, KAN.—We are informed that contracts for water-works for this place (bids received April 3), have been let as follows: INGLISH IRON WORKS, boiler and engine, $1,400; pipe valves and fittings, $146; heater separator, trap feed pump, $231; hydrants and valves, $413. FAIRBANKS, MORSE & CO., pumping machinery, $509; CENTRAL FOUNDRY CO., pipe, $3,152; CHICAGO BRIDGE & IRON WORKS, tank and tower, $2,250. W. H. Williams, Cy. Clk.

ALMA, NEB.—We are informed that no action will be taken toward new water-works and electric lights until bond issue is sold April 15. Bids received March 28 for the bonds were not considered high enough. W. W. Myers is Mayor.

WINSIDE, NEB.—B. W. Cullen writes us that this town wishes to put in water-works—stand-pipe system—and will be ready to take up matter of contracts about June 1. Engineer had not been selected.

CLEAR LAKE, S. DAK.—Mayor A. J. Sockhuch writes us that NATIONAL CONSTRUCTION CO., South Bend, Ind., has contract for constructing water-works for this place.

FORT PIERRE, S. DAK.—The Mayor writes us that proposed new city water-works will require 50-HP. gas pump, cement reservoir, pipe, specials and hydrants. Supply is to be from Mission River, ½ mile distant; est. cost of work is $30,000. We are also informed that bids will be opened at 12 o'clock noon, April 15, for drilling artesian gas well.

CODY, WYO.—Bids are asked by Big Horn Basin Development Co., G. W. Zorn, Ch. Engr., until May 1, for construction of first 16 miles of the Shoshone River Canal, with the exception of three short tunnels. The work will consist of about 880,000 cu. yds. excavation, mostly earth work. (Advertised, Engineering News.)

BOZEMAN, MONT.—We are informed that additional intake to city water-works will probably be built of 12-in. vitrified pipe. Est. cost is $5,000. C. M. Thorpe is Engr. in Charge.

FORT BENTON, MONT.—Bids are asked by City Council until 12 o'clock, noon, April 15, for construction of reservoir and pipe line. C. H. Evers, Mayor.

CASSVILLE, MO.—Bids are asked by W. D. Steele, Cy. Clk., until April 28 for furnishing material and constructing water-works. Bids are asked also for furnishing material and erecting steel tower and tank of 30,000-gallons capacity, 50 ft. total height above foundation. Burns & McDonnell, Engrs., 509 Dwight Bldg., Kansas City, Mo.

FORT WORTH, TEX.—Council of North Fort Worth has awarded contract for construction of water-works for that city to the McQUATTERS MACHINE & PLUMBING CO., Hillsboro, Tex., for $92,980. Bids were received March 25.

HOUSTON, TEX.—Cecil A. Lyon, Houston, is interested in the construction of an irrigation system near Quanah, and desires to correspond with grading contractors who wish to figure on the construction of a dam about one mile long and 30 ft. high, which will contain about 170,000 cu. yds. earth. Bids are to be in about April 15 and contract will be let about May 1. Prices are wanted also on 36-in. cast-iron pipe and gate valves.

SAN ANTONIO, TEX.—Following bids were received March 29 by Robert R. Stevens, C. Q. M., U. S. A., for construction of water distributing system at Fort Sill: A. Motochman, Chicago, Ill., $12,280; Hurley & Co., St. Paul, Minn., $12,940; Dwyer Plumbing & Heating Co., St. Paul, Minn., $14,500.

SAN ANTONIO, TEX.—Bids are asked by Robert R. Stevens, C. Q. M., Department of Texas, San Antonio, until May 6 for furnishing and erecting 60,000-gallon wooden tank and trestle at Fort Reno, Okla.

COALGATE, IND. T.—Plans and specifications are being prepared by Burns & McDonnell, Consult. Engrs., Kansas City, Mo., for a water-works system in this city.

CASTLE ROCK, COLO.—We are informed that Douglas County Ditch & Reservoir Co. proposes to construct new irrigation system. R. J. Dobell, Secy., Castle Rock, is official in charge. According to press reports this company, which was recently incorporated with capital of $150,000, has already secured title to two reservoir sites, one capable of holding over 1,000,000 cu. ft. of water, the other holding 200,000,000 cu. ft. Preliminary work is stated to have been completed and actual construction work was to commence soon.

MONTROSE, COLO.—Contract for construction of water-works for this town, bids received April 1, are reported to have been let to the AMERICAN LIGHT & WATER CO., 615 Keith and Perry Bldg., Kansas City, Mo., for $64,900.

FORT WRIGHT, WASH.—Bids are asked by Capt. Edw. A. Shuttleworth, Q. M., U. S. A., until May 1 for constructing reinforced concrete reservoir of 200,000 gallons capacity, pumping station, installing motor-driven triplex pump, and laying and connecting water mains at Fort Wright.

TACOMA, WASH.—Commissioner of Public Works is reported to have awarded contract for supplying two new pumps at South Tacoma to the TRACY ENGINEERING CO., San Francisco, Cal., for $10,399.

ANAHEIM, CAL.—C. O. Rust, Pres. Cy. Council, writes us that the enlargement of pumping and electric light plant of this city is contemplated. At the last meeting of council the city engineer was authorized to secure the services of consulting engineer to get up plans and estimates.

AZUSA, CAL.—DAVISSON & SMITH have contract for cement work on proposed pipe line of the Azusa Agricultural Water Co., and READ & CULVER were successful bidders for the excavation work. Specifications call for 7,700 ft. of 16-in. pipe and 700 ft. of 20-in. Also 280 ft. of tunneling.

PRESCOTT, ARIZ.—Bids are asked by Mayor and Common Council until April 17 for furnishing materials and building concrete reservoir. E. B. Modern, Cy. Clk.

PROVO CITY, UTAH.—Mayor Wm. M. Roylance writes us that work of completing city water-works extension and erection of municipal electric light plant will be let by contract. Frank C. Kelsey, Salt Lake City, Utah, is Des. Engr.

NORTH BAY, ONT.—Contract for constructing 15,000-ft. water pipe line for this town has been let to JAMES M. CHALMERS, Lindsay, Ont.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

GARDNER, MASS.—We are informed that "only a few hundred feet of sewerage is to be built this season." It will be done by day work. Charles W. Conant is Chn. Sewer Comn.

SALEM, MASS.—Bids are asked by Sewerage Commission, Joseph N. Peterson, Chn., until April 20, for construction of cast iron force main, consisting of 9,900 lin. ft. 30-in. pipe, laid under water. Cast iron pipe will be furnished by city. (Advertised, Engineering News.)

WATERBURY, CONN.—Bids are asked until May 2 for construction of several sewers. R. A. Cairns is Cy. Engr.

NEW HAVEN, CONN.—C. W. Kelly, Cy. Engr., writes us that details of State St. sewer construction have not yet been decided. It will cost about $40,000. Noted on March 30.

NEW LONDON, CONN.—Contract for building two outfall sewers in the Pequot section has been let to T. A. SCOTT CO., at $4,869.

AMSTERDAM, N. Y.—Bids are asked until April 19 for an 18-in. storm drain, about 700 ft. long, with seven catchbasins. F. E. Crane is Cy. Engr.

NEW YORK, N. Y.—Bids are asked until April 19, 3 p. m., for building sewer in Broadway, between Park Pl. and Barclay St. John F. Ahearn, Boro. Pres.

SYRACUSE, N. Y.—We are advised that bids probably will be received this month for building sewers in Tenth Ward. Estimated cost, $20,000. Frank J. Schnauber is Cy. Engr.

BROOKLYN, N. Y.—Bids are asked until April 26, 11 a. m., for building several sewers. Martin W. Littleton, Boro. Pres.

ATLANTIC CITY, N. J.—Russell Contracting Co. was lowest bidder, at $17,127, for constructing drainage system.

ASBURY PARK, N. J.—John L. Coffin, Supt. Dept. of Water & Sewers, writes us that no contract for 18-in. intercepting sewer will be let until the result of the bond election, on April 26, is known. F. Herbert Snow, Tremont Bldg., Boston, Mass., is Designing Engr. Noted fully on March 30. Estimated length is 4,000 ft., with average cut of 11 ft. Cost, $8,000.

NEWARK, N. J.—The contract for the Avon Ave. sewer and branches was awarded to JAMES A. CHRISTIE, of Newark, at $24,454.

Bids are asked until April 13 for about 720 ft. of 10-in. sewer pipe. Edward S. Rankin is Engr. Board of Street and Water.

HARRISBURG, PA.—Bids are asked until noon, April 17, for building several terra cotta pipe sewers. W. H. Lynch, Comr. Highway Dept.

NORRISTOWN, PA.—We are informed that bids will be received until 8 p. m., April 17 by S. Cameron Corson, Borough Engr., for furnishing for year ending March 1, 1906, all sizes of vitrified fire clay and shale pipe from 6 to 36-in. and connections delivered on line of work; vitrified paving brick, crushed stone, curb and crossing stone, f. o. b. cars, Norristown. Sewer Committee will consider proposition to install sanitary sewers in portions of this town not sewered; amounting to about 25 miles of sewers, including laterals, 114 flush tanks, etc.

SALTSBURG, PA.—Bids are asked until May 4 for 1,070 ft. of 10-in. sewer, including manholes, inlets, etc. Hiram Smith is Boro. Clk.

WASHINGTON, D. C.—Bids are asked until April 15 at the office of Building for National Museum Library of Congress, for concrete pipe trenches, topping out concrete foundations and laying sewers for the new National Museum building. Bernard R. Green, Supt. of Construction.

AMHERST, VA.—We are informed that there will be two small sewage disposal plants installed at Sweet Briar Institute, Amherst, with sub-irrigation absorption field. Bidders should apply to J. M. B. Lewis, Constructing Engr., Lynchburg, Va., and L. S. Randolph, Consulting Engr., Blacksburg, Va.

ROANOKE, VA.—Bids are asked until April 15 by W. S. McClanahan, Secy., 104 South Jefferson St., for constructing sewers in the Crystal Spring addition.

BIRMINGHAM, ALA.—Julian Kendrick, Cy. Engr., is drawing plans for purification plants to be built by Jefferson County. Bids will be asked soon.

NASHVILLE, TENN.—E. T. LEWIS CO., 61 Arcade Bldg., have the contract for constructing a trunk sewer in Foster St., at $5,931.

HOPKINSVILLE, KY.—The Council has ordered the sale of a franchise for construction of a sanitary sewer system in this city. To be built by private capital, at a cost of $65,000.

ALLIANCE, O.—We are informed that contract for constructing one ring 36-in. brick sewer in Summit St., bids for which were received by Board Public Service, O. E. Pfauts, Cy. Engr., April 6, has been let to J. K. AULD, Canton, O., for $4,922. We are also informed that a contract was let March 15 to OTT BROS., Pittsburg, Pa., for a two ring 48-in. brick sewer, for $3.75 per lin. ft.

CINCINNATI, O.—The HEFFRON CONSTRUCTION CO., Neave Bldg., has been awarded the contract for constructing a trunk sewer in Linwood and Eastern Aves., Kriest St., and other streets in the East End, at $56,720.

CLEVELAND, O.—Contracts for sewers have been awarded as follows: Milford St. sewer to WM. LEHMAN, at $27,092; Detroit St. sewer to the W. J. TOWNSEND CO., at $16,835.

COLUMBUS, O.—Contract for Eldon Ave. and Clarendon Ave. sewers was awarded to A. G. PUGH, at $6,303.

The service board has awarded the contract for the central relief sewer to C. T. McCRACKEN, of Cleveland, at $117,744, for brick construction.

FINDLAY, O.—Bids are asked until April 18, noon, for constructing a sewer in Washington St., J. C. Edie, Clk. Bd. Public Service.

GREENVILLE, O.—Contracts for seven miles of ditch construction have been awarded to SMITH O'BRIEN, W. C. BARRY & SONS, H. C. CURREY, WALTER McHUGH and IRVIN WILT. The full amount of the contract is $8,362.

PAINESVILLE, O.—City engineer has been instructed to hasten his plans for storm water sewers here, so that bids can be advertised at once.

PORTSMOUTH, O.—Bids were received as follows for constructing flood defense sewers: Kelley Bros., Portsmouth, $6,674; Kaps Bros., Portsmouth, $6,674; Baird & Jenkins, Portsmouth, O., $6,434; Jardine, Brewer & Tomlinson, Chillicothe, O., $6,511. MONROE & SON, Portsmouth, were awarded contract at $6,315.

INDIANAPOLIS, IND.—The JULIUS KELLER CONSTRCTION CO. was awarded the contract, at about $105,925, for constructing concrete and pipe sewers in Senate Ave. W. R. Williams is Clk. Bd. Public Works.

LAFAYETTE, IND.—Bids are asked until April 24 for construction of section 3 of brick sewer in Cincinnati St. E. H. Andress, Jr., is Cy. Clk.

LOGANSPORT, IND.—We are informed by W. A. Osmer, Cy. Engr., that contract has been let to DENNIS UHL, at $136,615, for building sewer system; rock excavation extra. Rudolph Hering, 170 Broadway, New York, is Engr.

WINCHESTER, IND.—It is reported that bids will be received April 19 by C. C. Yunker, Cy. Engr., for constructing a sewer.

DETROIT, MICH.—The lowest bidder for the construction of the Iroquois sewer, from Canfield to Warren Aves. was John Jeynes, at $8 264. Langley & Jaynes were the lowest bidders for the section between Warren and Gratiot Aves, at $9,798.

EAST ST. LOUIS, ILL.—We are informed that plans have been prepared by W. J. Crocken, Cy. Engr., for proposed intercepting and outlet sewer which will drain the entire city. Ordinance providing for expenditure of $750,000 for this work has been submitted to City Counselor J. M. Freis. Silas Cook is Mayor. George H. Meck is Asst. Cy. Engr. This item was reported last week under East St. Louis, Mo.

MILWAUKEE, WIS.—Bids are asked until April 13, 2.30 p. m., for sewer in 20th Ave. Frank P. Schumacher, Secy. Bd. Park Comrs.

INDIANOLA, IA.—William H. Kimball, Engr., Davenport, Ia., is preparing plans for a sanitary sewer system for this town.

WASHINGTON, IA.—William H. Kimball, Engr., Davenport, Ia., has completed plans for a system of sanitary sewers and disposal plant for this city. There will be about eight miles of vitrified pipe sewers and an extensive disposal plant.

NEODESHA, KAN.—Contract for the construction of about 5½ miles of sewers was let to W. W. COOK & SON, of Junction City, Kan., at $23,148. G. O. Lines is Cy. Clk. Burns & McDonnell, 509 Dwight Bldg., Kansas City, Mo., are Engrs.

LAREDO, TEX.—JOSEPH NETZER, of Laredo, has contract at $20,690, for the construction of sewer system connecting Fort McIntosh with the Rio Grande River.

MUSKOGEE, IND. T.—Bids will be received until April 24 by the city council for constructing storm sewers in Ninth and Main Sts. Estimated cost, $19,000. S. A. Cobb is Cy. Engr.

DENVER, COLO.—The Board of Public Works has adopted specifications for the 13th St. storm sewer. Cost is estimated at $7 310.

OCEAN PARK, CAL.—ARTHUR S. BENT, of Los Angeles, at $11,889, was awarded contract for a sewer system, and the OLMSTEAD-POULSON CO., contract for a spetic tank, at $8,196.

SAN BERNARDINO, CAL.—Four miles of new sewers may be built.

GARBAGE DISPOSAL—STREET CLEANING

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked by John McG. Woodbury, Comr. Street Cleaning, 13 Park Row, until April 25 for furnishing and delivering ten watering or sprinkling trucks.

ROME, N. Y.—Board Public Works has rejected all bids received April 3 for street sprinkling and has directed P. H. Porcheron, Cy. Engr., to call for new bids until April 20. At previous opening of bids Charles H. Connor, at $31,447 for three-year contract, and $50,984 for five-year contract, was low bidder.

ASBURY PARK, N. J.—Contract for removal of garbage, rubbish and ashes within city limits for period of three years has been let to ARTHUR REDFERN and FRITZ KOENEMENOL, Secaucus, N. J., for $13,500.

ORANGE, N. J.—Ordinance has been before Council to authorize public health committee, Chas. W. Romine, Chn., to call for bids for collecting and disposing of ashes and garbage for five years. This would seem to indicate that the plan for a city garbage crematory had been abandoned.

LANCASTER, PA.—Contract for garbage collection for this city is stated to have been let to J. SCOTT DICKEY & CO. for $9,000 for term of one year.

PHILADELPHIA, PA.—Bids are asked by Peter Costello, Director Pub. Wks., until May 4 for collection and disposal of city garbage during 1906.

WASHINGTON, D. C.—Bids are asked by District Commissioners, Henry B. F. MacFarland, Member, until April 28 for collection and disposal of ashes, garbage, dead animals, night soil and miscellaneous refuse in the District of Columbia. (Advertised, Engineering News.)

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—The following allotments for state highway improvements were made by State Highway Commission to various counties: Barnstable County, $24,317; Berkshire, $25,700; Bristol, $23,000; Duke, $5,919; Essex, $35,900; Franklin, $27,100; Hampden, $27,600; Hampshire, $23,500; Middlesex, $49,000; Norfolk, $27,000; Plymouth, $30,100; Worcester, $66,560.

BOSTON, MASS.—Bids are asked by Metropolitan Park Commission, 14 Beacon St., Boston, until April 17, 12 o'clock m., for grading, surfacing and other work at Lynn Shore Reservation. Estimate of work is approximately as follows: 3,640 cu. yds. earth grading; 100 cu. yds. filling material; 650 lin. ft. pipe drain; 20 concrete catch basins; 1,000 sq. yds. concrete gutters; 405 lin. ft. artificial stone steps; 715 lin. ft. edgestone; 5,010 cu. yds. loam; 13,800 sq. yds. broken stone surfacing; 3,660 sq. yds. walk surfacing; 5,200 sq. yds. granolithic walk. John R. Rablin, Engr.

DRACUT (STA. LOWELL), MASS.—The State Highway Comrs. have allowed $8,000 for building of highway here.

SWANSEA, MASS—The State Highway Commission has allotted $5,000 for macadamized roads here. Henry O. Wood is Town Clk.

BEVERLY, MASS.—The contract for constructing highway in Beverly was awarded to FRANK WILLIAMS, 37 South Morgin St., Boston, for $3,299.

FALL RIVER, MASS.—Contracts for furnishing paving blocks and curbing for city have been awarded to local dealers as follows: Paving blocks, NAPOLEON ROSS, 25,000, $1,669; FLAVIEN COTE, 60,000, $4,050; WM. BEATTIE, 135,000, $9,315. Curbing—NAPOLEON ROSS, 4,000 ft., $2,880; BEATTIE & WILCOX, 13,000 ft., $9,750.

TORRINGTON, CONN.—Jos. P. Wadhams, C. E., Torrington, is surveying Litchfield Road preliminary to cutting down of Toll Gate hill and straightening of road at that point. About a mile and a half of state road is to be built.

ALBANY, N. Y.—The contract for the improvement of Livingston St. was awarded to ALONZO SCHAUPP for $11,087.

BUFFALO, N. Y.—The following street repaving contracts were voted by Aldermenic Committee on Streets HENRY P. BURGARD, Prudential Bldg., Michigan St., $10,750; BARBER ASPHALT CO., Clinton St., $1,650; GERMAN ROCK ASPHALT CO., D. S. Morgan Bldg., Eagle St., $6,314.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. of Schools, until April 17 for laying artificial stone pavements at Schools Nos. 31 and 34, Borough of Bronx.

SYRACUSE, N. Y.—The TROY PUBLIC WORKS CO., of Utica, was the lowest bidder for paving of Wood Ave. with vitrified brick.

TROY, N. Y.—The contract for paving 15th St. was awarded by Board of Contract and Supply to JOHN H. GLEASON. Cost, $29,217.

UTICA, N. Y.—A number of streets here will be paved this coming spring.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until April 26, for regulating and paving roadway of a number of streets.

AMSTERDAM, N. Y.—Following bids were received by Common Council April 4 for paving Market St. with brick: T. H. Dumary, Albany, N. Y., $12,851; J. R. Baxter, Jr., Utica, N. Y., $12,392; Frank Pidgeon, Saugerties, N. Y., $14,733; Troy Public Works, Utica, N. Y., $15,127; J. R. Morgan & Co., Amsterdam, N. Y., $15,113. Action was deferred two weeks. Bids were also received at same time for paving with brick on Bridge St., the contract for this work being let to T. H. DUMARY, for $3,030. F. E. Crane is Cy. Engr.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of Bronx, until April 20 for regulating and grading, setting curbstones, laying crosswalks, etc. on various streets.

ATLANTIC CITY, N. J.—Bids are asked by City Clerk until April 17 for widening of boardwalk. J. W. Hackney, Cy. Engr.

PATERSON, N. J.—H. J. Harder, Cy. Engr., informs us that the proposed paving matter has not been settled yet. If the ordinance stands as it is now, the paving will consist of about 25,000 yds. of asphalt.

ATLANTIC CITY, N. J.—Bids are asked by County Freeholders until May 9 for filling and graveling Albany Ave. Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

ATLANTIC CITY, N. J.—The contract for curbing on Atlantic Ave. with Balfour granite was awarded April 3 by City Council to EDWARD MOSS for $43,367. The contract for sidewalks was let to CRAMER & PARKER for $7,127.

McKEESPORT, PA.—It is stated that bids will be received by County Commissioners until April 24 for constructing about five miles of road.

PITTSBURG, PA.—It is stated that bids will be received by County Commissioners until April 24 for macadamizing several county roads, in all about 14 miles. Chas. Davis is County Engr.

WASHINGTON, PA.—Bids are asked by State Highway Department, at Harrisburg, until May 6 for construction of 9,740 ft. of road in this (Washington) county.

WILKESBARRE, PA.—Bids are asked until April 29 for building a macadam road from Hillside to Huntsville, in Jackson Township. James M. Norris, County Controller. (Advertised, Engineering News.)

WILLIAMSPORT, PA.—Common Council has passed on third reading the ordinance providing for the extension of Beeber and West Third Sts. James F. Fisher is Cy. Engr.

SALTSBURG, PA.—Hiram Smith, Boro. Engr., writes us that a petition is being prepared for paving Salt St., with brick, about 6,000 sq. yds., 2,900 cu. yds. grading and 3,100 lin. ft. 6-in. curbing. This contract will be let in May.

BALTIMORE, MD.—Specifications for paving of several streets were approved and ordered advertised by Board of Awards. B. T. Fendall is Cy. Engr.

SALISBURY, N. C.—C. MARKLEY, of Roanoke, Va., has been awarded contract for street improvements here, to cost about $25,000.

AUGUSTA, GA.—Bids are asked by City Council until April 27 for material and labor for about 10,000 sq. yds. paving with either brick or small Belgian block. Nisbet Wingfield, Cy. Engr. (Advertised, Engineering News.)

QUITMAN, GA.—This city has voted to issue $50,000 in bonds for putting in a sewerage system and paving streets in business sections.

GREENWOOD, MISS.—We are informed that this city is preparing to pave two miles of street. Address T. R. Henderson.

JACKSON, MISS.—The city will issue $30,000 in bonds for street improvements. Walter G. Kirkpatrick is Cy. Engr.

LEXINGTON, KY.—The contract for resurfacing Second St., has been let to HOME CONSTRUCTION CO., of Lexington.

LOUISVILLE, KY.—The Board Public Works has plans for improving Frankfort Ave. Est. cost, $30,000. J. B. F. Breed is Cy. Engr.

QUEENSBORO, KY.—This city contemplates the construction of concrete sidewalks this summer to cost about $50,000.

BOWLING, O.—Bids are asked by R. C. Harding, County Audr., until April 24 for grading, draining and macadamizing B. F. Waggoner Road in Milton Township, and Jerry City Road in Bloom Township. E. L. Spafford, County Surv.

BUCYRUS, O.—Bids are asked by Board Public Service until May 1 for paving about 15,700 sq. yds. with brick; est. cost, $18,800. C. P. Bryant, Cy. Engr.

BUCYRUS, O.—We are informed that nine miles of stonepike will be let April 21. Address C. P. Bryant.

CINCINNATI, O.—Bids are asked by Board Public Service until April 26 for grading, curbing and paving with granite blocks on Smith St. Geo. F. Holmes, Clk.

CINCINNATI, O.—Bids are asked by Geo. F. Holmes, Cy. Clk., until May 4 for grading, curbing and macadamizing Observatory Ave.

ELYRIA O.—County Commissioners will soon act on the question of constructing ten miles of stone roads this year. Cost about $35,000.

FINDLAY, O.—The council has taken up the question of paving of Tiffin Ave. with vitrified block, at cost of $23,000. J. W. S. Riegle is Cy. Engr.

PORT CLINTON, O.—Jefferson, Fulton and Madison Sts. will soon be paved.

SANDUSKY, O.—City Council has passed legislation for paving of Railroad St. with brick, and will soon advertise for proposals. J. W. Miller is Cy. Engr.

TOLEDO, O.—Board Public Service has awarded contract for repaving 14th St., to GARRIGAN BROS., Valentine Bldg., Toledo, for $6,553.

TOLEDO, O.—Contracts for paving Vermont Ave. and Chicago St. were awarded to KERLIN BROS., Nasby Bldg., Toledo, for $4,706 and $7,695 respectively.

JEFFERSON, O.—Mayor White informs us that some stone sidewalks will be laid by the city this year.

YOUNGSTOWN, O.—Bids are asked by G. [illegible] Cy. Clk., until April 28 for constructing cement sidewalks and repairing asphalt streets.

FREMONT, O.—We are informed that bids will be advertised for in about 30 days for paving of W[illegible] St. Geo. W. Lesher, Cy. Engr.

ATTICA, IND.—Bids are asked by Samuel T. [illegible] Cy. Clk., until April 21 for the improvement of [illegible] St. Plans at office of City Engineer.

BEDFORD, IND.—We are informed that W. [illegible] & CO., of Bedford, was awarded contract by Co[illegible] Commissioners, April 3, for nine miles of gravel [illegible] for $17,050.

BLUFFTON, IND.—Bids are asked by County Commissioners until April 22 for construction of 15 gravel roads in Jackson Township.

JEFFERSONVILLE, IND.—Plans are being prepared for improving roadway in front of Indiana R[illegible] and replacing wide brick pavement with granitoid.

PAOLI, IND.—We are informed that the contracts for constructing Potato Road and Chambersburg and [illegible] burg Road were let to HENRY H. BROXTON, of [illegible], Ind., for $3,890 and $6,480 respectively. Alvin [illegible]ham, County Audr.

RICHMOND, IND.—The Board Public Improvements has ordered H. L. Weber, Cy. Engr., to prepare plans for cement sidewalks on Chestnut and Eighth Sts.

WILLIAMSPORT, IND.—Bids are asked by County Commissioners until April 22 for construction of gravel road. J. H. Crawford, Supt., Hedrick, Ind.

MT. VERNON, IND.—Bids are asked by Henry Kling, Cy. Clk., until April 24 for construction of macadam pavement and artificial stone curb and gutter on Eighth St.

VERSAILLES, IND.—Bids are asked by Nicholas Volz, County Audr., until May 2 for construction of 2¼ miles of macadamized road.

MUNCIE, IND.—Bids are asked by Common Council until April 24 for improvement of sidewalks on First and Vine Sts. R. G. Hickok, Cy. Clk.

TRAVERSE CITY, MICH.—Bids are asked by Chas. M. Beers, Cy. Clk., until April 21 for constructing a brick, asphalt or Warren bitulitnic pavement on Front St. Plans and specifications on file in office of City Engineer.

GREEN BAY, WIS.—Common Council has authorized the Committee on Streets and Bridges to immediately advertize for bids for paving Main St. with either brick or bitulithic.

MILWAUKEE, WIS.—Many streets will be permanently improved during the coming season and nearly $500,000 will be expended by the city in this work. Chas. J. Poetsch is Chn. Bd. Pub. Wks.

RHINELANDER, WIS.—This city will pave about 20 blocks of streets this coming spring and summer.

DES MOINES, IA.—Resolution providing for the paving of Charles St. with vitrified brick was passed by City Council. W. B. Vertrees, Cy. Clk.; John W. Budd, Cy. Engr.

HUTCHINSON, KAN.—City Council passed an ordinance to pave nine blocks on Main St. with brick, on concrete foundation. T. G. Elbury is Cy. Engr.

AUSTIN, TEX.—City Council has instructed C. E. Leonard, Cy. Engr., to prepare plans for paving of Sixth St.

DALLAS TEX.—The City Council has under consideration the expending of $100,000 in repairing streets. E. L. Dalton is Cy. Engr.

TACOMA, WASH.—The George Milton Savage Co., of Tacoma, was the lowest bidder, at $47,820, for paving North J St., with asphalt.

SPOKANE, WASH.—Peter Costello was lowest bidder, at $14,890, for grading and laying sidewalks on Third Ave.

WINNIPEG, MAN.—It is stated that tenders will soon be received for laying of an asphalt pavement on Corydon Ave. Est. cost, $40 000. C. J. Brown is Cy. Clerk; H. N. Ruttan is Cy. Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

BROCKTON, MASS.—The shoe factory of R. B. Grover & Co. was recently destroyed by fire. Loss, $200,000.

WORCESTER, MASS.—The Pierrepont Mills Corporation has been chartered with $50,000 cap. stock to manufacture cotton and woolen goods. Edw. H. Burnap, of Worcester, is Pres.

HARTFORD, CONN.—It is stated that Hart & Hegeman Mfg. Co., manufacturers of electric switches, etc., will build a factory at Capital Ave. and Broad St. this year. Shiras Morris is Secy.

ALBANY, N. Y.—Wm. J. Obenaus, Arch., Bensen Bldg., has prepared plans for one-story addition to factory of N. Burdick & Son, Hamilton and Mosher Sts. A water tower, 14 × 14 ft., will be erected.

BINGHAMTON, N. Y.—Sturtevant-Larrabee Co. want proposals for a three-story brick addition, 50 × 100 ft., to their carriage factory.

BROOKLYN, N. Y.—W. Higginson, Arch., 13 Park Row, New York, has plans for an extension to laundry of Wendell & Evans Co., Pearl and Concord Sts. Cost, $20,000.

BROOKLYN, N. Y.—Louis Danancher, Arch., 256 East New York Ave., has plans for factory for Olansky & Adler, Livonia Ave. and Junius St. Cost, $7,000.

ROCHESTER, N. Y.—The Rochester Valve Co. has been incorporated. Capital, $250,000. Directors: J. N. Beckley, J. H. Stedman and R. A. Salmons, all of Rochester.

SYRACUSE, N. Y.—M. C. Conway, Arch., 112 East Jefferson St., has plans for new plant for new process rawhide company. There will be two buildings, one of which will be a storehouse.

CAMDEN, N. J.—FRED. A. HAVENS CO., Perry Bldg., Philadelphia, Pa., has been awarded contract for factory for Philadelphia Caramel Co. Brick, 2 stories, 180 × 190 ft.

JERSEY CITY, N. J.—Plans have been prepared by H. & W. Neumann, Archs., 202 Ogden Ave., for a three-story brick brass foundry, at Seventh and Madison Sts., for Henry Moller, 65 Carlton Ave.

TRENTON, N. J.—The contract for factory for United & Globe Rubber Co. has been awarded to I. W. CLAYTON. Brick, 2 stories, 140 × 180 ft.

CARLISLE, PA.—M. L. Dunkleberger will soon have plans started for a shoe factory. Brick, 3 stories, 100 × 50 ft.

ERIE, PA.—A company has been organized to build an iron works to cost about $200,000. Bids will be invited as soon as p'ans are completed. Thos. G. Morse, 510 Downing Bldg., is drawing plans.

KITTANNING, PA.—J. B. Barthel, Arch., 79 Dearborn St., Chicago, Ill., is preparing plans for a brewery, to be erected at Kittanning. The same architect is preparing plans for a brewery to be erected at Jordan, Minn.

LEIGHTON, PA.—Jacoby & Weishampel, Archs., Allentown, Pa., are preparing plans for foundry for Lehighton Foundry & Machine Co. Brick, 1 story, 40 × 240 ft.

MILLERSTOWN, PA.—C. H. Lloyd, Arch., Harrisburg, is preparing plans for two-story tannery at this place for Rinkman's Sons.

PHILADELPHIA, PA.—WM. STEELE & SONS have been awarded contract for an addition to mill at Kensington. Brick, 4 stories, 100 × 70 ft.

PHILADELPHIA, PA.—Contract for foundry to be erected at 17th and Glenwood Ave. for Crompton & Knowles Loom Works has been awarded to CHAS. W. DENNY, 1237 Arch St.

PHILADELPHIA, PA.—Amos W. Barnes, Arch., 134 South Ninth St., has plans ready for bids for a two-story factory at 25th and Lasher Sts., for Young & Russell.

PHILADELPHIA, PA.—G. & W. Kolb, Meadow and Jackson Sts., have invited bids for an addition to factory. Brick, 1 story, 50 × 120 ft.

RIDGEWOOD, PA.—CHAS. H. SCHLEGAL, Mt. Penn, Pa., has been awarded contract for fertilizer factory and chemical plant for Reading Bone Fertilizer Co. Frame, 3 stories, 60 × 230 ft.

ROCKWOOD, PA.—It is announced that the Baltimore & Ohio R. R. Co. contemplates the erection of a machine shop here and that it has appropriated $30,000 for the purpose. M. Foley, Supv. of Rd., Rockwood, may be able to inform.

UNIONTOWN, PA.—P. F. McCANN, of Greenburg, Pa., has been awarded a contract by Republic Iron & Steel Co. for building of 400 coke ovens on Dunlap Creek, near here.

BALTIMORE, MD.—Plans have been prepared by Haskell & Barnes, Archs., Central Savings Bank Bldg., for factory building, to be erected in connection with plant of Natl. Stamping & Enameling Co. Brick, 1 story, 109 × 168 ft. Cost, $50,000.

BALTIMORE, MD.—Chas. M. Anderson, Arch., 324 North Charles St., has invited bids for foundry for Montford Machine Casting Co. Brick, 1 story, 50 × 160 ft.

CHESTER, VA.—J. H. Boyd & Bro. will erect a planing mill and sash, door and blind factory, and will probably want machinery for same.

RICHMOND, VA.—The Gordon Metal Co. will erect a new factory and office building. James W. Gordon is Pres.

WHEELING, W. VA.—The Wheeling Steel & Iron Co. will erect a galvanizing plant.

WESTON, W. VA.—The Sun Lumber Co. has been chartered to build and operate mills, factories, railroads, etc. Capital stock, $60,000. Incorporators: Amos Bright, of Sutton; J. H. Browning, W. S. Hoskins and others, of Weston.

CLAYTON, N. C.—The Clayton Cotton Mills will expend about $75,000 in improvements and the present number of 5,120 ring spindles will probably be doubled.

LEXINGTON, N. C.—The Lexington Metal Bed Co., capital, $12,000, has been chartered here to erect a factory to be in operation July 1. W. M. Koonts is Pres.

VARNVILLE, S. C.—E. R. Ginn is in the market for complete equipment for box and crate factory.

COLUMBUS, GA.—The Carrison Veneer & Woodwork Co. will erect a new plant here to manufacture baskets, etc. D. J. Carrison is Pres.

BIRMINGHAM, ALA.—It is stated that arrangements have been completed for the erection of $1,000,000 plant to be established here by Wilkerson Turbine Co.

GADSDEN, ALA.—The Alabama Consolidated Coal & Iron Co. has invited bids for the erection of new furnace which will be erected here, adjacent to their present plant.

HUNTSVILLE, ALA.—The Bowe Mfg. Co. is preparing to erect a knitting mill at a cost of $75,000.

MONTGOMERY, ALA.—The Dixie Mfg. Co. is being organized to erect a plant for the manufacture of hickory pick levers, plugs and other hardwood material, and is in the market for complete equipment for factory of this character. R. L. Wood is Pres.

NEW DECATUR, ALA.—Improvements to the extent of $15,000 or more will be made at once on Louisville & Nashville shops, the contract having been given to CHAS. JONES, of New Decatur.

BOLTON, MISS.—The citizens contemplate erecting a cotton compress. Address the Mayor.

MAGNOLIA, LA.—The Magnolia Compress & Warehouse Co. has been organized with a capital of $30,000, and will erect a compress and warehouse here.

CHATTANOOGA, TENN.—M. H. Ward, A. A. Stong, J. A. Wardlaw and others have filed articles of incorporation for the Independent Ice & Cold Storage Co., capital $25,000, to erect an 80-ton ice factory, 100 × 100 ft. Plans have been completed and work on foundation will begin at once. Machinery has been ordered.

LENOIR CITY, TENN.—The Dixie Mills, manufacturers of hosiery, will add $100,000 to their capital, increasing it to $250,000, and erect a 5,000-spindle mill for manufacture of yarns. The building will be a two-story brick, and, together with its equipment of power and machinery, will represent a cost of $100,000. H. S. Mizner is Pres.

HOPKINSVILLE, KY.—The Imperial Tobacco Co. has purchased property here and will at once erect a large tobacco factory.

HOPKINSVILLE, KY.—The Hopkinsville Canning Co. will erect a canning here.

LOUISVILLE, KY.—The Kaolin Putty Co. has been incorporated and will erect a factory in this city and one in Macon, Ga. Capital stock, $200,000. Incorporators: G. K. Hikes, J. P. Venable, W. F. Gregory and T. Nadeau.

LOUISVILLE, KY.—The Crescent Mfg. Co., of Louisville, has taken out a building permit to erect a one-story, 373 × 120 ft., factory at 33d and Market Sts. Cost, $25,000. Other buildings will be added in the near future.

OWENSBORO, KY.—T. C. THOMPSON & BRO., of Birmingham, Ala., have secured contract for erecting factory buildings of Owensboro Wagon Co. Work of construction will begin at once.

TOLEDO, O.—The Toledo-Massillon Bridge Co. has been incorporated with $250,000 cap. stock to take over the Massillon (O.) Bridge Co. In addition to the operation of Massillon plant another will be erected in Toledo. Incorporators: T. H. Tracey, Chas. S. Davis, Clarence A. Draper and others. All of the stock has been subscribed.

BOWLING GREEN, O.—The Leonard Stave Co., of Toledo, O., has purchased a site in Bowling Green and will move its plant to this place. Plans are being made for brick building, 54 × 108 ft. Cost, $10,000.

CINCINNATI, O.—Gustave W. Drach, Arch., Union Trust Bldg., has plans for lithographing plant, to be erected by Albert Fisher for Achert & Henckel Lithographing Co. Cost, $40,000.

NEWARK, O.—Between $50,000 and $100,000 will be spent by the Baltimore & Ohio Railroad in the enlargement of its car and locomotive shops at Newark. G. J. Vibbliss is Master Mech., Newark.

CRAWFORDSVILLE, IND.—Voris & Woodbridge will establish a factory here to manufacture corrugated steel sewer.

GREENSBURG, IND.—The Greensburg Planing Mill & Lumber Co. has incorporated and will establish a plant here. M. G. Reynolds is Pres.

MICHIGAN CITY, IND.—The Legislature appropriated $10,200 for factory building for Indiana State Prison. Plans and specifications will be prepared within the next 60 days. Jas. D. Reid is Warden.

MILAN, IND.—Ed. Abbott and Thos. Thompson have secured a site upon which to build a lumber and veneer mill. Bids are now in order.

RICHMOND, IND.—The Star Piano Co. will soon ask for bids for construction of an additional factory building, 100 × 50 ft.

LUDINGTON, MICH.—Ed. C. Van Leyen, Arch., Peninsula Bank Bldg., Detroit, has plans ready for factory building for Star Watch Case Co., Ludington. Trussed concrete construction, 3 stories, 30 × 200 ft. Cost, $50,000.

The same architect has p'ans ready for figures for a two-story addition, 260 × 86 ft., to factory building at Debray, Mich., for Detroit Sulphite Fibre Co., 8 Butler Bldg., Detroit.

CHICAGO, ILL.—Francis M. Barton, Arch., Royal Insurance Bldg., has plans for factory for Rubber Paint Co. Cost, $30,000.

JOLIET, ILL.—It is stated that Hugo Boehme, Arch., 406 Third Ave., is receiving bids for one-story factory building, 60 × 120 ft. Cost, $8,000.

JOLIET, ILL.—The Illinois Wire & Steel Co., Rookery Bldg., Chicago, has had plans prepared for an addition to foundry at Joliet. Cost, $100,000. Work will begin in about 30 days.

MILWAUKEE, WIS.—Bids will be received, it is stated, by Buemming & Dick, Archs., Pabst Bldg., for a two-story addition, 65 × 90 ft., to factory building, for Atlas Bread Co., 927 Central Ave. Cost, $10,000.

MILWAUKEE, WIS.—Extensions are to be made to Allis-Chalmer's plant at West Allis until it is four times its present size.

SIOUX CITY, IA.—Contract has been let by Gordon, Tracey & Swartout, Archs., 156 Fifth Ave., New York, to FRANK B. GILBRETH, 34 West 26th St., New York, for erection of factory here for Simons Hardware Co., of St. Louis, Mo. Cost, about $300,000. It has been practically decided to construct the interior of this building, columns, floors, etc., of reinforced concrete.

ANACONDA, MONT.—Contract for erection of four-story brewery for Washoe Brewing Co. has been let to JOHNSON & LAW, Anaconda.

KANSAS, MO.—Albert Turney, Arch., Massachusetts Bldg., has plans for a two-story repair shop, to be erected at Sixth and Prospect Sts. for city. Cost, $10,000.

CLARKSVILLE, ARK.—W. A. Daugherty will establish a foundry and machine shop here.

DE QUEEN, ARK.—The De Queen Ice Co. will erect a $20,000 ice factory in Texarkana.

HOUSTON, TEX.—The Standard Milling Co. will soon let contract for construction of a 75,000-bushel steel storage grain tank for wheat. This company is also making extensive improvements to its flour mill and will install additional machinery. Its corn mill is also being enlarged.

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LAREDO, TEX.—It is reported that the International & Great Northern Railroad will soon erect repair and machine shops in Laredo, at a cost of $20,000.

McGREGOR, TEX.—Brown, Connally & Co. will rebuild their gin on a more extended scale.

PARIS, TEX.—W. R. Eubanks, of this place, will erect a large saw and planing mill in the Indian Territory, near Pine Creek.

WACO, TEX.—The Waco Mill & Elevator Co. has been organized here with a capital stock of $100,000 for the purpose of building and operating a grain elevator. Frank Kell, of Wichita Falls, Tex., is interested.

SOUTH McALESTER, I. T.—The American Steam Laundry Co. has been reorganized with $25,000 capital. Extensive improvements and additions will be made to plant. E. D. Jones is Pres.

PORTLAND, ORE.—Plans have been prepared to double the size of Neustadter Bros. factory on Grand Ave., at cost of about $20,000.

SAN FRANCISCO, CAL.—The California Electrical Works will erect a large brick office and factory building here. L. E. Sperry is Pres., 547 Mission St.

WINNIPEG, MAN.—Foley, Locke & Larsen will erect a candy factory. S. F. Evans is Arch.

VANCOUVER, B. C.—The British Columbia Wire & Nail Co. has purchased 150 ft. of property on which to establish a nail factory.

VICTORIA, B. C.—The British-American Paint Co. has made application to city for site on which to erect a factory.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

LUMBER.—New York, N. Y.—Bids are asked by Commissioner of Street Cleaning, 13 Park Row, until April 20 for furnishing and delivering lumber.

DRY DOCK.—Camden, N. J.—The Noecker, Rickenbach & Ake Shipbuilding Co. is having plans prepared for a dry dock at foot of 28th St., to cost $80,000.

DREDGING.—Baltimore, Md.—Contract for 225,000 cu. yds. dredging for city (bids opened April 5) has been let to MARYLAND DREDGING CO., Baltimore.

DREDGING.—Newport, R. I.—Bids are asked until May 8 for dredging in Little Harbor, Woods Hole, Mass. Lt.-Col. J. H. Willard, U. S. Engrs. (Advertised, Engineering News.)

CEMENT, SAND, ETC.—Portland, Me.—Bids are asked until May 1 for cement, broken stone and sand. Major W. M. Black, U. S. Engrs. (Advertised, Engineering News.)

DREDGING.—Newport, R. I.—Bids are asked until May 15 for dredging anchorage area in Providence Harbor. J. H. Willard, Lt. Col. Engrs. (Advertised, Engineering News.)

BULKHEAD.—Lorain, O.—Bids are asked until April 21 by U. S. Life Saving Service, S. L. Kimball, Gen. Supt., Washington, D. C., for constructing bulkhead at this place.

CEMENT.—New London, Conn.—Bids are asked until April 15 for furnishing 750 bbls. American Portland cement. Lt.-Col. Chas F. Powell, U. S. Engrs. (Advertised, Engineering News.)

RUBBLE STONE.—Chicago, Ill.—The Sanitary District is offering for sale 17,000,000 cu. yds. of rubble stone lying on the banks of the drainage canal. Bids will be received until May 10.

FIRE ENGINE, FIRE ALARM SYSTEM.—Champaign, Ill.—Bids are asked until April 29 for chemical fire engine and for fire alarm system. Geo. W. Mattis, Chn., Purchasing Com.

CASTINGS.—Washington, D. C.—Bids are asked by Bureau of Engraving and Printing, Wm. M. Meredith, Dir., until May 1 for furnishing brass castings and iron castings during fiscal year.

DREDGING.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, Pier A., Battery Pl., until April 18 for dredging about 100,000 cu. yds. in East and Harlem Rivers.

ROCK REMOVAL.—New York, N. Y.—Bids are asked until May 12 for removal of rock in North River, off Pier A, New York Harbor. W. J. Marshall, U. S. Engrs. (Advertised, Engineering News.)

ORDNANCE SUPPLIES.—Springfield, Mass.—Bids are asked until May 3 for furnishing Springfield Armory, Col. Frank H. Phipps, Comdg., with ordnance supplies, among which are steel, iron castings, lumber, etc.

COAL POCKET, ETC.—Atlantic City, N. J.—Contract for coal pocket, tool house and machinery for Absecon station (bids received March 28), has been let to W. W. LINDSAY & CO., Philadelphia, Pa., for $8,880.

ORDNANCE SUPPLIES.—Dover, N. J.—Bids are asked at U. S. Powder Depot, Dover, Maj. O. B. Mitcham, Comdg., until May 1 for furnishing ordnance supplies, among which are bar iron, lumber, cement, etc.

CEMENT, LUMBER, ETC.—Cambridge, Mass.—Bids are asked by Cambridge Water Board, Walter H. Harding, Clk. City Hall, until April 17, for furnishing lumber, cement, screened broken stone and screened gravel stone.

WIRELESS TELEGRAPH.—Washington, D. C.—Bids are asked until April 25 by Bureau Supplies and Accounts for furnishing and installing six complete outfits of wireless telegraph apparatus and fittings. H. T. B. Harris, Paym.-Gen., U. S. N.

CEMENT.—Chicago, Ill.—Bids are asked by South Park Commissioners, E. G. Shumway, Secy., 57th St. and Cottage Grove Ave., until 2.30 p. m., April 19, for furnishing and delivery of about 2,000 bbls. Portland cement and 1,000 bbls. natural or Rosedale cement.

DRAINAGE.—Havana, Ill.—Bids are asked until April 21 for excavation of about 208,000 cu. yds. of dirt, by dredge boat, from the ditches of the Mason and Tazewell Special Drainage District. M. B. Dunbar, Comr., Green Valley, Ill. (Advertised, Engineering News.)

SWEEPING PLANT.—New York, N. Y.—Bids are asked, until April 18, by George Cromwell, Pres., Boro. of Richmond, First National Bank Bldg., St. George, New Brighton, for furnishing all the labor and materials required for vacuum sweeping plant in Richmond Borough Hall.

TRAP ROCK, CEMENT.—New York, N. Y.—Bids are asked by Park Board, John J. Pallas, Pres., Arsenal Bldg., until April 20 for furnishing and delivering broken stone of trap rock and screenings of trap rock; bids are asked also for furnishing and delivering 500 bbls. Portland cement.

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until May 2 for furnishing machine tools, as follows: Sand belt machine, emery grinders, saw-mill outfit, planer, saw roller, scarfing machine and fire pumps. H. T. B. Harris, Paym.-Gen., U. S. N.

DREDGING.—Brooklyn, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until April 19 for dredging Gowanus Canal, requiring removal of 15,000 cu. yds., scow measurement; also for dredging Newton Creek Canal, requiring removal of 13,000 cu. yds., scow measurement.

DREDGING, ETC.—Chicago, Ill.—Sanitary District has awarded contract for widening and deepening west branch of Chicago River from McCormick Harvesting Co.'s plant to the Midewell, to HAYES BROS., Janesville, Wis., for $150,000. The undertaking will necessitate construction of two cofferdams.

CONDUIT, TRUCKS, MOTORS, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until May 9, for furnishing quantity of naval supplies, among which are conduit, bushings, transformers, cement, motors, pipe, trucks, carts and shafting. H. T. B. Harris, Paym. Gen., U. S. N.

MACHINERY.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until May 16, for furnishing quantity of machine tools, as follows: Dovetailing machine, punches, planing, milling, and pipe expanding and flanging machines, drill press, crank shaper, lathe and drill chucks. H. T. B. Harris, Paym. Gen., U. S. N.

CHEMICAL WAGON, ETC.—Wichita, Kan.—Bids are asked until April 17 for combination chemical wagon; single exposed 50-gallon tank; Archibald wheels; wooden box, capable of carrying 1,000 ft. of 2¼-in. hose; basket with 250 ft. chemical hose, nozzle attached, with usual equipments, including ladders, etc. J. J. Leland, Cy. Clk.

DRAINAGE DITCHES.—Breckenridge, Minn.—Bids are asked by Board of Drainage Commissioner until May 2 at the office of the county auditor of Wilkin County for the construction of drainage ditches in Sub-Drainage District No. 2, Wilkin County, Minnesota. Total number of cubic yards of earth to be removed, 429,678. John H. Ehlert, Chn.

EARTH SPREADERS, ETC.—Washington, D. C.—Bids are asked by the Purchasing Agent, Isthmian Canal Commission, until May 10 for furnishing earth spreaders, unloading machines and unloading plows. Assistant Purchasing Agent, 24 State St., New York. Maj. H. J. Gallagher, U. S. A., Purchasing Agent. (Advertised, Engineering News.)

PIER WORK.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, until April 17, for the following work: Preparing for and building a new pier,

with appurtenances, at the foot of E. 9th St, East River; preparing for and removing the present pier, Old 18, East River, and building a new pier between Malden Lane and Pine St.

DRAINAGE DITCH.—Geneseo, Ill.—We are informed that matter of construction of drainage ditch across Bureau and Henry Counties, as mentioned in our issue of March 30, has been postponed for 30 days, and this will necessitate some delay in calling for bids. Green River Special Drainage District, Frank S. Haynes, Secy., Geneseo, Ill., is in charge.

CABLE, DRILLS, BOILER, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until April 25, for furnishing naval supplies, among which are cable, electrical supplies, steel plates, shapes, bars, castings and forgings, erection of water tower and tank, drills, hand tools, gate valves, tubular boiler and pumps. H. T. B. Harris, Paym. Gen. U. S. N.

COAL HANDLING PLANT.—Philadelphia, Pa.—Contract for a coal handling plant for Lardners Point filtration station has been let to HENDERSON & CO., Ltd., 1212 Arch St., Philadelphia. The plant will be of structural steel and will consist of coal pockets, trestles and electric apparatus for conveying the coal direct from the barges to the pockets. The cost will be $120,000.

PIER WORK.—New York, N. Y.—Maurice Featherson, Comr. Docks, has awarded contract for construction of ferry slips at South Ferry and St. George to SEELY-TAYLOR CO., 78 Broad St., New York. Contract amounts to $357,000. Contract for preparing for and constructing pier at East Fulton St. (bids received March 30) has been let to G. B. SPEARIN, 17 Battery Pl., New York, for $36,932.

CABLEWAYS.—Washington, D. C.—Bureau of Yards and Docks, Navy Department, Washington, will soon issue an advertisement inviting proposals for furnishing two traveling cableways for naval station, Guantanamo, Cuba, for use in excavating for graving dry dock authorized by Congress to be constructed at that station. The cableways shall be capable of lifting 6¼ tons at a rate of 200 ft. per minute and conveying at the rate of 400 to 600 ft. per minute. They shall be designed to excavate to a depth of 55 ft. below the level of the track with the traveler at any point of the span up to a distance of 80 ft. beyond the center from the head tower and shall have towers of such height that the bucket specified can be dumped into a hopper whose top is 18 ft. above the top of the rail of the cableway, the edge of the hopper being 75 ft. from the center of the cableway span in either direction. The Government will furnish the woodwork for the towers and frames and put the same together, also the tracks ready to receive the cableways. Bidders are required to furnish plans and specifications for the cableway upon which their proposals are based. The estimated cost of the work is $23,000. Bids for the above work are asked by Bureau Yards and Docks until May 6. Specifications may be seen at office of Engineering News, 220 Broadway, New York.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ × 6 ins., 6 × 9 ins., and 9 × 12 ins.)

LUNCH BOXES.—F. W. Bird & Son, East Walpole, Mass. Illustrated folder; 3½ × 6 ins.

STEAM SHOVELS.—The Vulcan Iron Works Co., Toledo, O. Illustrated folder; 8¼ × 11 ins.

GROUND PUMP PLUNGERS.—The Allentown Rolling Mills, Allentown, Pa. Illustrated folder; 6 × 9½ ins.; pp. 4.

VENETIAN BLINDS.—Fritz & Goeldel Mfg. Co., Grand Rapids, Mich. Illustrated folder; 3 × 6 ins.; pp. 8.

Venetian blinds are illustrated and described, and price list given.

AIR COMPRESSORS.—Clayton Air Compressor Works, New York. 3½ x 6 ins.; pp. 32.

A few of the air compressors made by this company are illustrated and their merits set forth.

WIRE ROPE CAR HAULAGE.—The Jeffrey Mfg. Co., Columbus, Ohio. Illustrated folder; 8 × 10 ins.; pp. 6.

This folder shows photographs of a number of gravity inclines installed by this company.

GLASS TUBE CUTTER.—Alexander H. Hunt, Scranton, Pa. Card; 3½ × 5½ ins.

This tube cutter is meant for cutting gage glasses. It is illustrated and described, and price given.

AIR COMPRESSORS.—The Ingersoll-Sergeant Drill Co., New York. 5½ × 3¼ ins.; pp. 14.

A few of the different types of air compressors made by this company are illustrated and briefly described.

LATHE CHUCKS AND DRILL CHUCKS. — Westcott Chuck Co., Oneida, N. Y. 6 × 9 ins.; pp. 32.

Nine styles of lathe chucks and four styles of drill chucks are illustrated and described, price lists being given.

RIVET FORGES.—The Ingersoll-Sergeant Drill Co., 26 Cortlandt St., New York. 6 × 9 ins.; pp. 6.

This bulletin describes the MacDonald rivet forge, a cross-section of the forge being given to show its construction.

ALLOYS FOR BEARINGS.—The Buda Foundry & Mfg. Co., Railway Exchange Building, Chicago. 6 × 9 ins.; pp. 8.

The different bronzes and antifriction metals made by this company are described.

STEAM ENGINES.—A. L. Ide & Sons, Springfield, Ill. 6¼ × 9¼ ins.; pp. 15.

The "Ideal" steam engines manufactured by this company are illustrated in an interesting form. Tables of standard stock sizes of engines are given.

BUILDINGS.—Frank B. Gilbreth, Boston and New York. 8¼ × 7 ins.; pp. 15.

Photographs of a number of factories, laboratories, residences and other buildings erected by this firm are given, together with letters commending the work done by the firm, which makes a specialty of rapid building construction, doing the work on the basis of cost of construction plus a fixed sum for superintendence and use of plant.

READERS' WANTS If any one is in the market for any engineering or [illegible] supplies, the first thing to do is to refer to our advert[illegible] but if the buyer cannot find what he wants we particularly ask that he notify us at once and we will inform [illegible] parties without cost to the inquirer. A copy of **ENGINEERING NEWS BUYERS' GUIDE** will be mailed [illegible] upon application. This paper will always appreciate any news notes regarding public, or important private wo[illegible] be pleased to receive detailed items. Requests to hold names will be complied with in every case. **Do not fail [illegible] our advertisers or us.**

TANK CARS.—Richmond, Va.—The Armitage Mfg. Co., 3300 Williamsburg Ave., is in the market for tank cars.

DRY-KILN.—St. Augustine, Fla.—Heth Canfield & Sons are reported as in the market for a 5,000 ft. capacity dry-kiln.

CONCRETE MIXERS, STEEL WHEELBARROWS, ETC.—South McAlester, Ind. T.—McEachin & Hiffle are in the market.

SAW MILL MACHINERY.—Waco, Tex.—The United Development Co., Angus McKinnon, Mgr., is in the market for lumber-cutting machinery, etc.

SAND-WASHING MACHINE.—Liverpool, Eng., Jos. Beausire & Co., 18 Water St., are in the market, we are informed, for a sand-washing machine.

GASOLINE HOISTING ENGINES, ETC.—Birmingham, Ala.—The Southern Construction Co., 204 Chalifoux Bldg., is in the market, according to reports.

SAND BLAST MACHINE.—Liverpool, Eng.—C. S. Grindler, 153 Westminster Road, Kirkdale, Liverpool, is in the market for a sand blast machine for glass and marble work.

LEAD PIPE, INDICATOR, ETC.—Richmond, Va.—G. A. Inman & Co., Times-Dispatch Bldg., is reported in the market for a 10-in. indicator, a 10-lb. float and 300 ft. of lead pipe.

ENGINE AND BOILER AND 10-TON ICE PLANT.—Mason, Tex.—Wm. Ellebracht is in the market for a 54 × 16 boiler and 12 × 36 engine, and will likely want a 12 × 36 Corliss engine later.

CHARCOAL AND CHARCOAL MAKING APPARATUS.—Worcester, Mass.—F. Morgan Aguirre writes us that he wants the addresses of the manufacturers of charcoal and charcoal making apparatus.

LANDSCAPE ARCHITECTS.—Canada.—We are informed that it is likely that the Grand Trunk Ry. System, Montreal, may soon wish to engage a landscape architect to plan the ground, etc., at the Pacific terminals.

BUILDING BLOCK MACHINES.—F. S. White, Box 130, Clarksburg, W. Va.; the Missouri Granite-Brick Co., A. V. Boswell, Mgr., Joplin, Mo.; Ivan E. Allen, of Atlanta, Ga., and W. T. Christopher, of Americus, Ga., are reported as in the market for cement building block machines, etc.

RAILWAY SUPPLIES.—Swannanoa, N. [illegible] Tree R. R. is in the market for a mile of 56 [illegible] rail, angle bars, bolts, etc., and W. L. Bra[illegible] R. R., Augusta, is in the market for electric [illegible]

PULLEY BORING AND TURNING MAC[illegible] inth, Miss.—The Corinth Engine & Boile[illegible] Thos. Young, M. E., writes us that it is in [illegible] for a machine that will bore and turn pul[illegible] wheels from 3 to 10 ft. in diameter. J. E. [illegible]

COAL-HANDLING MACHINERY, CONCR[illegible] ERS, HOISTING ENGINES, DERRICKS, [illegible] TORS' TOOLS, ETC.—New York, N. Y.—Th[illegible] Engineering & Contracting Co., 29 Broadway, [illegible] that it is in the market for the above-mentione[illegible]

CYLINDRICAL CONCRETE MIXER.—New [illegible] —J. Edward Ogden Co., 147 Cedar St., writes [illegible] in the market for a cylindrical concrete mixer, [illegible] four-wheel truck, and when the truck is in moti[illegible] the mixer so that by the time the truck reaches [illegible] the material is already mixed.

HEATING APPARATUS, BUILDING SUPPLI[illegible] ETC.—I. J. McKain, Mayor, Willepoint, Miss.; S. [illegible] Third and Washington Sts., Pulaski, Va.; the Boys Industrial School, Rome, Ga.; Young's Female College, Thomasville, Ga.; Z. V. Waise, Lexington, N. C.; [illegible] Simmons, of Hancock, Md., and J. G. Fredericks, 11th and Moss Sts., Lake Charles, La., are reported in the market for various building supplies.

RUBBER BELT CONVEYOR.—South Africa.—Aktiengesellschaft für Feld-und Kleinbahnen-Bedarf [illegible] Orenstein & Koppel, of Tempelhofer-Ufer 24, Berlin, S. W. 61, Germany, writes us that prices are wanted at once on furnishing a rubber belt conveyor. Prices must be quoted f. o. b. shipping port, and c. i. f. Delagoa Bay, P. R. A. Specifications and sketches may be seen at the office of Engineering News, New York.

SAND AND LIME BRICK.—De Leon, Tex.—Lowe & Troxell are reported as interested in the matter of sand and lime brick, and may be in the market for brick machinery, as will also J. O. Ragsdale, of Madison, N. C., and the Missouri Granite-Brick Co., A. V. Boswell, Gen. Mgr., of Joplin, Mo., who will also want prices on rock crushers, conveying machinery, building-block machinery, shafting, pulleys, ball mills, cars, rails, etc.

"IDEAL POWER."—A monthly magazine devoted to ocmpressed air and electrical appliances. Ideal Power Publishing Co., 1508 Fisher Building, Chicago, Ill. 6 × 9 ins.

This magazine contains a number of short articles relating to pneumatic tools and their use.

INDUSTRIAL CARS.—John Turl's Sons, 234 West 28th St., New York. Illustrated folder; 9½ × 12 ins.; pp. 4.

This folder consists entirely of illustrations of the different types of industrial cars made by this company; also, dumping buckets, industrial railways, curves and switches.

TRENCH MACHINES.—The Carson Trench Machine Co., Boston, Mass. 9 × 6 ins.; pp. 30.

This catalogue contains a large number of very suggestive photographs showing the use of cableways and trench machines in various parts of the United States and in Canada.

"STEAM SHOVEL NEWS."—A magazine devoted to the interest of steam shovels and their work. 8 × 10½ ins.

This magazine contains a number of photographs and line drawings of Vulcan steam shovels, also interesting short articles relating to shovel work.

PIPE LINE SUPPLIES.—J. G. Pollard, Brooklyn, N. Y. 3¼ × 6½ ins.; pp. 12.

Lead furnaces and pots, calking hammer, jute packing, asbestos joint runners, sewer steps, light ditch derricks, and all supplies used in laying water pipe, are illustrated in this catalogue.

DUMP CARS.—Continental Car and Equipment Co., 17 Battery Place, New York. 9 × 6 ins.; pp. 23.

This catalogue treats of different types of dump cars suitable for contract work, photographs of the different cars being given, together with brief descriptions of dimensions, weights, etc.

DRAFTING TABLES AND CABINETS.—Fritz & Goeldel Mfg. Co., Grand Rapids, Mich. Illustrated folder; 3 × 6 ins.; pp. 12.

The different sizes and types of drafting tables are shown, and price lists given. Blue print frames and cabinets are also listed.

COALING STATIONS.—Mead-Morrison Mfg. Co., Boston and New York. 9 × 11 ins.; pp. 16.

Photographs of a number of large coaling plants installed by this company are shown, brief descriptive matter accompanying each photograph. Coal handling grab buckets are illustrated.

BRASS AND COPPER.—Waterbury Brass Co., Waterbury, Conn. 4 × 7 ins.; pp. 75.

Brass, copper and German silver, in sheets, rolls, plates, circles, wire rods, are listed in this catalogue. Tables of weights and gages are given. The tables showing weights of seamless brass tubes are particularly complete.

PILE DRIVING MACHINERY.—Vulcan Iron Works, Chicago, Ill. 5 × 6¾ ins.; pp. 40.

Various types of pile drivers are illustrated and described, also appliances to be used in connection with pile driving, such as pile shoes, pile bands and band pullers, timber clamps, pile followers, pile saws. Tables for safe bearing loads for piles, according to the Engineering News formula, are given.

"STEAM HEATING."—A paper by Reginald Pelham Bolton, C. E. and M. E. Published by Warren Webster & Co., Camden, N. J. 6¼ × 9¼ ins.; pp. 20.

This paper is a reprint of one of the papers read in 1897 before the American Society of Heating and Ventilating Engineers.

ELECTRIC PUMPS.—The Allentown Rolling Mills, Allentown, Pa. 6 × 9 ins.; pp. 48.

The advantages of electric pumping are set forth in this catalogue. The characteristics of the Aldrich electric pump are illustrated and described and pumps of different types and sizes are listed, tables being given of capacities, etc.

MANUFACTURERS OF METAL PARTS.—Pope Mfg. Co., Westfield, Mass. 3½ × 6¾ ins.; pp. 12.

This firm is prepared to manufacture multiple metal parts, such as screw machine products, stampings, drop forgings, special dies, tools, implements, etc. The company also does machining, enameling, brazing, polishing, laquering, case hardening and nickel plating.

VERTICAL MILLING MACHINES.—Newton Machine Tool Works, Philadelphia, Pa. 6 × 9 ins.; pp. 15.

This catalogue contains illustrations of a number of different designs of vertical milling machines, both belt and direct motor driven, which are made extra heavy, rigid and powerful to meet the demands of the locomotive and railroad machine shops for which they are specially adapted.

TRAVELING ELECTRIC HOISTS.—Pawling & Harnischfeger, Milwaukee, Wis. 10¾ x 7½ ins.; pp. 24.

Photographs of a large number of traveling electric hoists and cranes appear in this catalogue, brief data relating to each being given. One interesting photograph shows a wagon box, loaded with coal, being hoisted into the upper story of a building, then conveyed by the electric traveler to the bins.

WATER TOWERS, STANDPIPES, AND OTHER METAL STRUCTURES.—Chicago Bridge & Iron Works, Chicago, Ill. Stiff paper; 4½ × 7½ ins.; pp. 64.

Photographs of a large number of different water towers and standpipes installed by this company are given, with brief descriptions of the same. Useful hydraulic tables, and tables giving the strengths of riveted joints, appear in the back of the catalogue.

PIPE CUTTERS.—Ellis-Ford Pipe Cutter Co., Great Fall, Mont. 3½ × 6 ins.; pp. 12.

The Ellis system of pipe cutting is described, accompanied by illustrations of the cutter which was patented February 14, 1905. In cutting a pipe in a trench, all the room required is enough to pass the links carrying the cutter wheels underneath the pipe. This feature is especially valuable where the work is to be done in a rock trench.

SEPARATORS.—Harrison Safety Boiler Works, Philadelphia, Pa. 5¾ × 8½ ins.; pp. 128.

Cochrane separators are fully illustrated and described, tables being given of sizes, dimensions, etc. A long list of users appears at the end of the catalogue. The principal uses of the separators are for taking water out of live steam or purifying exhaust steam from cylinder oil, for removing oil, grit and moisture from ammonia currents, compressed air, etc.

TWO STEEL SPANS, ETC.

Greenwood, Ark.

Notice is hereby given that open competitive bids will be received at the West entrance to the Court House at Greenwood, Arkansas, on Monday, the first (1st) day of May A. D. 1905, at noon,

1. For furnishing all material and labor for erecting two steel spans of 56 feet each, and for erecting the same, to the bridge across James Fork in Sebastian, one mile south of Hackett City; and

2. For furnishing all material and labor for erecting one steel bridge, main span 80 feet and two approaches of 32 feet each, and for erecting the same across Vache Grasse creek on the Lavaca road, about 2 miles north of Greenwood;

both in Sebastian County, Arkansas.

Certified checks for $500 will be required before a bid will be considered from each bidder on each bridge, and successful bidder will execute a good bond for faithful performance of his contract.

Plans of the above work may be seen at the County Judge's office at Fort Smith, Ark.

WILLIAM A. FALCONER,
County Judge.

T. G. PORTER,
S. T. ESKRIDGE,
Commissioners James Fork Bridge.

T. A. NORRIS,
JOHN HALL,
15-1t Commissioners Vache Grasse Bridge.

MACADAM ROAD.

Wilkes-Barre, Pa.

Sealed proposals will be received by the County Controller at his office in the Court House, Wilkes-Barre, Pa., until Saturday, April 29th, 1905, at noon, for building and constructing a county road (macadam) from Hillside to Huntsville, in Jackson Township, according to plans and specifications on file in the office of the County Commissioners from whom blank forms for proposals may be obtained.

Certified checks will be required in ten (10) per centum of the amount of bid.

Bids will be directed to James M. Norris, County Controller, and marked "Bids for County Road."

The right to reject any or all bids is reserved.

JAMES M. NORRIS,
Controller.

Wilkes-Barre, Pa., April 4th, 1905. 15-1t

READVERTISEMENT.

CAST IRON FORCE MAIN.

Salem, Mass.

Sealed proposals for construction of cast-iron force main will be received by the Sewerage Commissioners of Salem, Massachusetts, at their office, City Hall, Salem, until 4 o'clock p. m., Thursday, April 20th, 1905.

All proposals must be made on blank forms furnished by the Engineer and must be accompanied by certified check made payable to the City of Salem for the sum of Three thousand dollars ($3,000).

Approximate lengths of Section:

Cast-Iron Force Main, 9,900 lin. feet 30-inch pipe laid under water.

Cast-iron pipe will be furnished by the City.

Plans and profiles may be seen and forms of proposals and specification obtained at the office of the Engineer, City Hall, Salem, Massachusetts.

The Commissioners reserve the right to reject any or all bids.

JOSEPH N. PETERSON,
Chairman.

ERNEST W. BOWDITCH,
Engineer. 15-1t

WATER PIPE AND CASTINGS.

Oswego, N. Y., April 4, 1905.

Sealed proposals will be received by the Department of Water of the City of Oswego, N. Y., until Saturday, April 15th at 12 o'clock noon, for furnishing and delivering cast-iron pipe and special castings for the Lake water extension. Specifications may be seen at this office and blank proposal sheets obtained.

All proposals must be endorsed "Proposals for furnishing and Delivering Cast-Iron Pipe and Special Castings," and must be accompanied by a certified check on an Oswego bank or a New York draft for one thousand dollars ($1,000.00) payable to the Department of Water.

The Department reserves the right to reject any and all bids.

F. W. ORMSBY,
Secretary.

15-1t

U. S. ENGINEER OFFICE, New London, Conn., April 5, 1905.—Sealed proposals for furnishing 750 bbls. American Portland cement will be received here until 12 o'clock noon, April 15, 1905, and then publicly opened. Information furnished on application. CHAS. F. POWELL, Lt.-Col., Engrs. 15-1t

STEEL WATER TOWER.

Salem, Va.

Plans and specifications are now ready for constructing an all steel water tower for the Town of Salem, Va. The capacity of the tank to be 150,000 gallons and the height 100' from piers to the bottom of hemisphere, or 148' 3" from piers to top of the cylinder. The plans and specifications include:

(1) A detailed special design for the particular conditions, with all working drawings and complete specifications.

(2) A general design, with dimension drawings and complete specifications.

Requests for information must be accompanied by a check for $6.50, payable to the Engineer, to cover the cost of drawings and specifications, and must give information as to length of time applicant has been engaged in such work, facilities for the manufacture of steel water towers, and cuts or photographs, showing structures of similar character and size built by the applicant, and length of time required. From among the applications thus made a selection will be made of a number, whose experience and facilities seem to the Council of the Town of Salem to best fit them for the work. To these, copies of the detailed drawings and specifications will be sent, and the checks returned to others.

Those parties to whom drawings and specifications are thus sent are invited to bid on both designs, not later than May 1st, 1905.

The town of Salem reserves the right to reject any or all bids. Accompanying each bid a certified check for $500, payable to the Treasurer of the Town of Salem, must be sent, the same to be a forfeit in case the contract is not entered upon promptly after its award, and will be retained until the completion of the work to save the Town of Salem from loss or damage caused by nonfulfilment of the conditions of the contract.

W. B. DILLARD,
Chairman Water Commissioners.

J. N. AMBLER,
Designing Engineer. 15-2t

PAVEMENT.

Augusta, Ga., April 7, 1905.

Sealed proposals addressed to the "City Council of Augusta, Ga.," will be received by the Street Committee until 12 o'clock noon, Thursday, April 27th, 1905, for furnishing material and labor and paving 8th Street, from Broad to Walker Sts., with either Brick or small Belgian Block. The surface to be covered is approximately ten thousand square yards, and the material to be used will be selected by the City after bids are opened.

Specifications can be had by applying to this office.

A certified check for $500.00 must be deposited with each bid.

The City Council of Augusta reserves the right to reject any or all bids.

15-2t NISBET WINGFIELD,
City Engineer & Commissioner Public Wks.

ELECTRIC LIGHT AND PUMPING STATION.

Watkins, N. Y.

Sealed proposals will be received by the Board of Water & Sewer Commissioners of the Village of Watkins, N. Y., at the office of Charles M. Woodward, Secretary, until one o'clock P. M., April 25, 1905, on work, apparatus and material for a municipal electric light and pumping station, including changes in present building, new brick stack, engine, dynamo, switchboard, motors, service pumps, condenser, heater, piping, arc lamps, pole line material, etc.

Plans and specifications may be seen, and blank specifications and proposals obtained from the Secretary or at the office of the Engineers, Room 2428, Park Row Bldg., New York City, on and after April 12, 1905.

The Board reserves the right to reject any and all bids.

Dated, Watkins, N. Y., April 6, 1905.

GEORGE D. NORMAN,
GEORGE HARING,
EDWARD A. GILLETT,
ABRAM S. STOTHOFF,
FRANK L. MORAN,
Commissioners.

CHARLES M. WOODWARD,
Secretary. 15-1t

OFFICE CONSTRUCTING QUARTERMASTER, Prescott, Ariz., April 12, 1905.—Sealed proposals in triplicate will be received here until 3 P. M., May 12, 1905, and then opened, for construction, plumbing, steam heating and electric wiring of 18 buildings. Plans, specifications and other information in this office and in those of Chief Quartermasters, San Francisco, Cal.; Denver, Colo.; Chicago, Ill.; St. Paul, Minn.; Omaha, Neb.; Depot Quartermaster, St. Louis, Mo.; Constructing Quartermaster, Fort Leavenworth, Kan.; Disbursing Quartermaster, Portland, Ore., and Recruiting Officer, Los Angeles, Cal. CHAS. C. WALCUTT, JR., Capt. and Q. M. 15-4t

STATE OF ILLINOIS }
COUNTY OF COOK } ss.
CITY OF CHICAGO. }

Public notice is hereby given that, pursuant to the resolution of the city council of the city of Chicago, duly passed on the thirteenth day of March, 1905 (council proceedings, p. 3052), proposals will be received for the construction and installation of a system of municipal street railways within the city of Chicago, upon the terms and conditions and the alternative plans hereinafter stated.

First. The said street railway system will first be installed upon the following named streets and parts of streets, to wit:

ADAMS STREET, from Clark street to Desplaines street;

DESPLAINES STREET, from Adams street to Harrison street;

HARRISON STREET, from Desplaines street to Western avenue;

WESTERN AVENUE, from Harrison street to Twelfth street;

TWELFTH STREET, from Western avenue to Crawford avenue.

It will be extended over the following streets and parts of streets, upon which the rights of the present occupants have already expired.

HALSTED STREET, from Harrison street south to the center of the Chicago river;

OGDEN AVENUE, from Harrison street to Fortieth avenue.

And will, at the pleasure of the city council, be extended into any and every other part of the city of Chicago, upon streets in which the rights of the present occupants have already expired or will expire during the years 1905 and 1906, and upon such other streets as may in the discretion of the city council be deemed advisable for making connected routes and lines of street railways.

Second. Payments to be made by the city shall be made either by the delivery of street railway certificates to be issued under and in accordance with the provisions of an act of the general assembly of Illinois, entitled "An Act to authorize cities to acquire, construct, own, operate and lease street railways, and to provide the means therefor," commonly known as the Mueller law, or in cash from the proceeds of the sale of such street railway certificates by the city, and separate bids may be submitted for payment by said certificates or for payment in cash from the proceeds of the sale thereof.

Third. Bids shall be separately submitted for the construction of tracks upon the streets specifically named above and for the installation thereon of all the necessary equipment for the operation of street railways. Said bids shall be submitted on the basis of a unit price per mile of track with overhead contact wire equipment, and a unit price per mile of track with underground electric conduit equipment, the construction in either case to be in accordance with the recommendations regarding such classes of construction in the "Report on the Chicago Transportation Problem," by Bion J. Arnold, 1902; the purpose being that the city council shall hereafter determine what part of the system above referred to shall be equipped with underground and what part with overhead appliances for electric propulsion, and reserves the right to itself furnish, and distribute electric power to the system.

Fourth. Separate bids shall also be submitted for the construction and equipment of the necessary power house or power houses and distribution system and in accordance with plans and specifications to be furnished by the city.

Fifth. Separate bids shall also be submitted for the furnishing of not less than fifty nor more than three hundred and fifty cars of the double truck type, not less than forty feet in length over all, cross reversible back seats, center aisle, equipped with 4 30-HP. motors, air brakes, fenders, sand boxes, and all other devices for the safety and convenience of the traveling public, and separate bids shall also be submitted and based upon a unit price per car for snow plows, sweepers, repair cars, and work cars, to properly take care of the initial system and maintain it in first-class working condition.

Sixth. Detailed plans and specifications, with regard to all matters hereinabove referred to will be prepared by the city of Chicago and can be obtained from the Commissioner of Public Works on or after June 1, 1905.

Seventh. If bids are submitted upon the basis of payments by means of the delivery of street railway certificates secured in accordance with the provisions of the Mueller law aforesaid, such bids may be separately submitted on the basis that the city shall, itself, operate said system or systems by its own employes, or that the city will lease such system or systems to the highest and best bidder, at least one-half of the rental thus obtained to be and constitute a trust fund to provide additional security for the payment of said street railway certificates and the interest thereon.

Eighth. If the bidder or bidders so elect bids may be submitted upon the basis that the completed system when equipped and installed shall be so leased to such bidder, and in such case he shall submit with his bid the percentage of the gross receipts of the system, or the amount of cash per year and the term of years, not to exceed twenty, which shall be provided for in such lease, and in such case the person bidding the highest percentage of gross receipts, other things being equal, shall be considered the best bidder. In case of bids based upon percentages of gross receipts, other things being equal, the bidder who shall accept the lease for the shortest period of time shall be considered the best bidder.

Ninth. If proposals shall be submitted upon the basis of the lease of the system to the bidder, as provided for in paragraph 8 hereof, the lease to be prepared by the authority of the city council shall be in such form as the city council may ordain, and shall contain, among other things, the following provisions, in addition to those already expressed herein.

(1) That the operation of cars upon the whole of said system shall at all times be subject to the reasonable exercise of the police power of the city, to be expressed by resolution or ordinance of the city council or by the orders of such executive officer as the city council may for that purpose appoint, and that the exercise of the police power, as aforesaid, shall relate to all matters concerning the safety, health, comfort and convenience of the public.

(2) That the rate of fare upon said system shall be five cents for adults and three cents for children between the ages of seven and twelve years, children under seven years of age, if accompanied by an adult, shall be carried free.

(3) That the lessee and operator of said system shall exchange transfers with any other company in the city whose lines cross or come within a distance of two hundred feet of the lines of said lessee and operator, to the extent to which the city may be able to enforce the exchange of said transfers by and with such other companies.

(4) The city shall have the right to commute its compensation by the reduction of fares; provided, however, that such reduction of fares shall never be so exercised as to impair the accumulation of a trust fund for the payment of said street railway certificates at maturity, and interest thereon as the same accrues.

Tenth. Bids may also be submitted for the privilege of constructing and operating street railway tracks and a system of cars in the various streets herein referred to, and such other streets as the city may lawfully designate from time to time, and in such case the bidder who agrees to pay for such privilege the highest percentage of the gross receipts to be received from such operation for the shortest term, shall, other things being equal, be considered the highest bidder. In such case the bidder may specify the streets and parts of streets upon which he desires to bid.

Eleventh. Proposals are also invited by the city for the sale to the city of existing tracks, wires and equipment owned or claimed to be owned by the companies whose ordinance-rights in the streets above mentioned or in any part thereof have expired.

Twelfth. Possession of the streets specifically above named will not be given by the city of Chicago until after the decision by the Circuit court of the United States in and for the northern district of Illinois of the injunction suit therein pending in which is involved the question of the date when the ordinance-rights of the Chicago Passenger Railway company in the streets above named expire; nor until the date of expiration determined by the final decree in said cause.

Thirteenth. All bids will be delivered to the comptroller of the city of Chicago, on or before the first day of July, 1905, in sealed envelopes, with a certified check for $25,000.00, to be forfeited by the successful bidder to the city of Chicago, as liquidated damages, in case the bidder fails to execute the necessary contracts and leases hereinabove referred to, and to be returned to the respective unsuccessful bidders by the comptroller upon the awarding and execution of the contracts and leases as aforesaid.

Fourteenth. At 2 p. m. of the said first day of July, 1905, the comptroller shall open and tabulate said bids and present the same and the tabulated report thereof to the committee on local transportation of the city council, and said bids and report shall thereafter be forwarded by said committee, with its recommendations, to the city council at its next meeting, or as soon thereafter as possible. The city council will reserve the right to reject all bids or award its contract to the bidder or bidders whose proposal may in the opinion of the city council be the most advantageous to the interests of the city.

(Signed) CARTER H. HARRISON,
Mayor of the City of Chicago.

Chicago, March 30, 1905. 15-4t

OFFICE OF THE COMMISSIONERS OF THE DISTRICT OF COLUMBIA, Washington, D. C., April 8, 1905.—Sealed proposals will be received at this office until 12:00 o'clock noon, on the 28th day of April, 1905, and then opened, for the collection and disposal of ashes, garbage, dead animals, night soil and miscellaneous refuse, in the District of Columbia, for a period or periods not to extend beyond June 30, 1910, and commencing, for ashes, miscellaneous refuse and night soil on August 1, 1905; for garbage and dead animals on December 1, 1905. Specifications and blank forms for proposals, and other information on the subject, can be obtained on application therefor to the Superintendent of Street Cleaning of the District of Columbia. Only bids on such forms will be considered; and a receipt for three thousand dollars ($3,000) from the Collector of Taxes of the District of Columbia, or a certified check for said amount on some reliable bank, payable to the Collector of Taxes, D. C., must accompany each bid. The Commissioners reserve the right to reject any or all bids, or to make such selection of one or more as may, in their judgment, best secure the efficient performance of the work. Bids must be enclosed in a sealed envelope, on the outside of which must be endorsed "Proposals for the collection and disposal of ashes, garbage, etc." HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 15-2t

CONSTRUCTING QUARTERMASTER'S OFFICE, Oswego, N. Y., April 12, 1905.—Sealed proposals in triplicate for furnishing the necessary labor and material required for a Water Distribution System at Fort Ontario, N. Y., and also for the labor and material for the construction of a Side-track, at Fort Ontario, N. Y., will be received at this office until 10.00 A. M., May 11, 1905, and then publicly opened. Plans, Specifications, and General Instructions to Bidders may be obtained at this office. Blanks for proposals and all necessary information will be furnished upon application. A guarantee in the amount of 10% must accompany proposal. Envelopes containing proposals should be marked "Proposals for Water Distribution System" or "Proposals for Side-track," and addressed to W. M. COULLING, Captain and Quartermaster, U. S. A. 15-4t

U. S. ENGINEER OFFICE, Newport, R. I., April 6, 1905.—Sealed proposals for dredging in Little Harbor, Woods Hole, Mass., will be received here until 11 A. M., May 6, 1905, and then publicly opened. Information furnished on application. J. H. WILLARD, Lt.-Col., Engrs. 15-4t

WATER-WORKS.

Waterville, Maine, April 15, 1905.

Sealed proposals, endorsed "Kennebec Water District Contract 20," for laying cast iron water pipe and appurtenances in Waterville, Winslow, Fairfield and Benton, for the Kennebec Water District, will be received at the office of its Engineer, Leonard Metcalf, 14 Beacon Street, Boston, Mass., up to Saturday, April 29th, at 10 a. m.

The approximate amount of work to be done is as follows:

Pipe laying, 560 feet 12-inch pipe over Waterville-Winslow bridge.
840 feet 8-inch pipe over Fairfield-Winslow bridge.
260 feet 10-inch pipe under Sebasticook River.
2,500 feet 16-inch pipe.
1,900 " 14-inch "
27,000 " 12-inch "
4,000 " 10-inch "
19,000 " 8-inch "
2,300 " 6-inch "
Taking up 15,000 feet old pipe.
Reconnecting 650 old services.
Rock excavation, 1,050 cubic yards.
Masonry, 50 cubic yards.

Bids will be compared upon the basis of the Engineer's estimate of work to be done, which is shown in greater detail in the printed form of contract and specifications.

Proposals for doing the work must be made in the printed pamphlets on "Contract 20" (which comprise the form of advertisement, proposal, contract and specifications, and bond) furnished for the purpose, and must be accompanied by certified check in the sum of five hundred dollars ($500), made payable to the "Kennebec Water District."

A bond in the sum of fifteen thousand dollars ($15,000) with a surety company, acceptable to the Trustees of the Kennebec Water District, as surety, will be required for the faithful performance of the contract.

Detailed plans of the work may be seen and printed form of contract and specifications may be obtained at the office of the Engineer 14 Beacon St., Boston, Mass., or at the office of the Kennebec Water District, 74 Main St., Waterville, Maine; and a copy of the specifications will also be on file (after April 19) at the office of "Engineering News," 220 Broadway, New York, and "Engineering Record," 114 Liberty St., New York.

Bids will be opened in public at the office of the Engineer, 14 Beacon St., Boston, Saturday morning, April 29th at 10 a. m., and it is hoped that contract may be awarded within ten days thereafter.

The right is reserved to the Kennebec Water District to reject any or all proposals, or to accept the one deemed for the best interest of the District.

KENNEBEC WATER DISTRICT.
F. C. THAYER,
V. R. CONNOR,
I. E. GETCHELL,
S. A. NYE,
W. S. WYMAN,
Trustees.
LEONARD METCALF, Engineer. 15-1t

CANAL WORK.

Cody, Wyo.

Sealed proposals will be received until 2 o'clock, noon, Monday, May 1, 1905, at the office of the Big Horn Basin Development Company, in Cody, Wyo., for the construction of the first 16 mi. of the Shoshone River Canal, with the exception of three short tunnels. The canal starts from the South Fork of the Shoshone River, about 20 mi. southwest of Cody, Wyo., and runs in an easterly direction. The work will consist of about 880,000 cu. yds. of excavation, mostly earth work. The 16 mi. will be divided into three (3) sections of approximately 300,000 cu. yds. each, and bids will be received on any one or more of these sections. The bid on each section must be accompanied by a certified check of $1,500.00, payable to the Big Horn Basin Development Co., as a guaranty that the bidder will, if successful, promptly execute a satisfactory contract and furnish satisfactory bond in the sum of $10,000.00 for the faithful performance of the contract.

The right is reserved to reject any or all bids. Specifications, plans, blank forms of proposals and other information regarding the work may be obtained at the aforesaid office, or by addressing the undersigned. Proposals must be made on the blanks furnished by the undersigned, and marked "Proposals to Construct the Shoshone River Canal." Address all communications to

G. W. ZORN,
15-2t Ch. Engr. Big Horn Basin Dev. Co.

DRAINAGE.

Havana, Ill.

Bids for the excavation of about 206,000 cubic yards of dirt, by dredge boat, from the ditches of the Mason and Tazewell Special Drainage District, in the Counties of Mason and Tazewell, and State of Illinois, will be received by the commissioners of the district up to the hour of eleven o'clock A. M., on April 21, 1905. Bids will be opened and the contract awarded at that time at Havana, Illinois. Specifications are on file in the county clerk's office at Havana, Mason County, Illinois. Specifications and all information necessary may be obtained by writing to Jesse Black, Jr., attorney for the district at Pekin, Illinois. Bids under seal should be forwarded to M. B. Dunbar, Commissioner, Green Valley, Illinois, accompanied by certified check for $500.

M. B. DUNBAR,
H. G. KREILING,
H. C. GUMBEL,
15-1t Commissioners.

WATER-WORKS.

De Pere, Wis.

Sealed bids will be received by M. J. Maes City Clerk, De Pere, Wis., until 2 o'clock p. m., May 4, 1905, for the improvements to the water-works plant. A certified check for 5% of the bid will be required with each bid and a bond of 25% of the contract price will be required of the successful bidder.

The right is reserved to reject any or all bids. The work will be let in parts as follows:

A. 13,870 feet of 6, 8, 10 and 12-inch cast-iron pipe; 22,000 pounds of special castings.
B. 34 fire hydrants; 29—6, 8, 10 and 12-inch gate valves.
C. The labor laying the pipe, setting hydrants, etc.
D. 2—50,000-gallon elevated steel tanks and towers.
E. One 50-HP. suction gas producer and gas engine.
F. One 500-gallon triplex power pump.
G. 2—50,000-gallon concrete reservoirs.
H. 200 or more meters, ¾" to 1".

Plans may be seen and blank proposals obtained at the following offices on and after April 17: Clerk's Office, City Hall, De Pere, Wis.; 31 Vroman Building, Madison, Wis.; 1636 Monadnock Bldg., Chicago, Ill.; 816 Security Bldg., Chicago, Ill.; 605 Ryan Bldg., St. Paul, Minn.; Free Press Bldg., Milwaukee, Wis.

For further information apply to W. G. KIRCHOFFER, Engineer, Madison, Wis.
15-2t

WATER-WORKS.

Lexington, N. C.

Sealed proposals will be received by the Mayor and Board of Commissioners of the Town of Lexington, N. C., until 2 o'clock P. M., May 3d, 1905, for the construction of a Water-Works Plant in the Town of Lexington, N. C., and furnishing the materials for same.

Works will embrace approximately 10 miles of pipe, stand-pipe, air lift plant and other appurtenances.

Plans and specifications will be on file, and may be seen at the office of the Clerk of the Board, and copies of specifications, forms, etc., may be obtained from the Engineer.

The right is reserved to reject any or all bids.

JOHN H. MOYER, Mayor.
J. L. PEACOCK, Clerk,
Lexington, N. C.
Engineer:
J. L. LUDLOW,
Winston, N. C. 15-2t

OFFICE OF THE CONSTRUCTING QUARTERMASTER, Fort Assiniboine, Mont., April 8, 1905.—Sealed proposals in triplicate will be received at this office until 11.00 o'clock A. M., May 11, 1905, and then opened in the presence of bidders, for furnishing all material and labor required for construction of basement and smoke-stack, and installation of heating plant and plumbing system in Hospital, at Fort Assiniboine, Montana, according to plans and specifications which can be seen in the office of the Chief Quartermaster, Chicago, Ill.; office of the Chief Quartermaster, Saint Paul, Minn., and in this office, where also instructions to bidders and blank proposals can be procured. Bidders must state in their bid the time required to complete the work. Proposals must be accompanied by two guarantees, each justifying in double the amount of ten per cent. of the total amount of the bid. The United States reserves the right to reject any or all bids or any part thereof. Envelopes containing bids to be indorsed "Proposals for Improvements to Hospital, Fort Assiniboine, Mont," and addressed to CAPT. J. B. McDONALD, Constructing Quartermaster, Fort Assiniboine, Montana. 15-4t

IRON BRIDGES.

Birmingham, Ala.

Sealed proposals will be received until 12 o'clock noon, May 4th, 1905, in the office of the Board of Revenue of Jefferson County, Alabama, for the construction of Nine Small Iron Bridges as follows:

Village creek, at Woodruffe mill. Short creek, at Tutwilers mines. Woods creek, one and one-half miles from Polk Lands. Warde creek, at Wards mill, three quarters of a mile above Partridges Cross Roads. Black creek, near No. 7 mines, Jasper road. Five-Mile creek, near Dolcita. Blue creek, near Adger. Hogans creek, near Coaldale. Mims branch at Powderly. Plans and specifications can be seen in the office of the Board of Revenue of said county.

The right to reject any and all bids is reserved by the Board of Revenue.

JOHN T. REED,
Prest. Board Revenue,
15-2t for Jefferson County, Ala.
April 10, 1905.

ROAD WORK.

Atlantic City, N. J., April 11, 1905.

Sealed bids will be received, immediately opened and publicly read by the Board of Chosen Freeholders of Atlantic Co., at its meeting in Memorial Hall, Atlantic City, N. J., on Tuesday, May 9th, at 11.30 A. M., for filling and graveling Albany Avenue over the Chelsea Heights tract, Atlantic City, N. J. Each bid must be accompanied by cash or certified check in sum of $1,000 as a guarantee that the contract will be signed when awarded. Copies of plans and specifications can be seen at the office of Engineering News or the County Collector's office in the Law Bldg., Atlantic City, N. J. The Board reserves the right to reject any or all bids.

A. B. SMITH, Director.
E. S. REED, Chairman.
J. J. ALBERTSON, County Engineer. 15-3t

MANUFACTURE OF STEEL AND IRON IN THE STATE OF NEW SOUTH WALES, AUSTRALIA.—DEPARTMENT OF PUBLIC WORKS, Sydney, New South Wales, February 16, 1905.—Tenders for the manufacture, supply and delivery in New South Wales of all steel and iron required by the Government for a period of seven years, will be received in this office by the undersigned up to 2 p. m. on Friday, the 1st of September, 1905.

Description and conditions of contract, specification, tender form and statistical information for the guidance of intending tenderers may be obtained at the office of Messrs. R. W. Cameron and Company, New York, United States of America. CHARLES A. LEE, Minister for Public Works. 13-7teow

Specifications may be seen at the office of Engineering News, 220 Broadway, New York.

U. S. ENGINEER OFFICE, 537 Congress St., Portland, Me., April 10, 1905.—Sealed proposals for Cement, Broken Stone and Sand will be received here until 12 M, May 1, 1905, and then publicly opened. Information furnished on application. W. M. BLACK Maj., Engrs. 15-3t

PROPOSALS FOR REPAIRING BREAKWATER.—U. S. Engineer Office, 262 Huron Street, Cleveland, O., April 3, 1905.—Sealed proposals for repairing the shore end of the West Breakwater at Cleveland Harbor, Ohio, will be received at this office until 2 P. M., May 6, 1905, and then publicly opened. Specifications, blank forms, and all available information will be furnished on application to this office. DAN. C. KINGMAN Lieut.-Col. Corps of Engineers, U. S. A. 14-4t

OFFICE OF THE COMMISSIONERS, D. C., Washington, April 1, 1905.—Sealed proposals will be received at this office until 12 o'clock noon, Monday, May 1, 1905, for the construction of a sever-span steel bridge across the Eastern Branch of the Potomac River, at the foot of 11th street [illegible]. Blank forms of proposal, specifications and all necessary information may be obtained at the Office of the Engineer Commissioner, D. C. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 14-2t

WEST POINT, N. Y., April 6, 1905.—Sealed proposals, in triplicate, will be received here until 12 o'clock, noon, May 5, 1905, for furnishing about 3,000 tons of cast-iron pipe and special castings, as per specifications on file in this office. U. S. reserves right to accept or reject any or all proposals or any part thereof. Forms and specifications furnished upon application. Address QUARTERMASTER, U. S. M. A. 15-3t

WEST POINT, N. Y., April 11, 1905.—Sealed proposals, in triplicate, will be received here until 12 o'clock, noon, May 11, 1905, for laying about 32,000 feet of 20-inch cast-iron water pipe, as per specifications on file in this office. The U. S. reserves right to accept or reject any or all proposals or any part thereof. Forms and specifications furnished upon application. Address QUARTERMASTER, U. S. M. A. 15-4t

U. S. ENGINEER OFFICE, Army Building, New York City, April 12, 1905.—Sealed proposals for removal of rock in the North River, off Pier A, New York Harbor, will be received at this office until 12 o'clock, noon, May 12th, 1905, and then publicly opened. Information on application. W. L. MARSHALL, Engrs. 15-4t

PROPOSALS FOR EARTH SPREADERS, UNLOADING MACHINES AND UNLOADING PLOWS.—Office Isthmian Canal Commission, Washington, D. C., April 15, 1905.—Sealed proposals, in triplicate, will be received at the office of the Purchasing Agent, Isthmian Canal Commission, Washington, D. C., until 10.30 a. m., May 10, 1905, at which time they will be opened in public, for furnishing the above mentioned machinery. Blanks and full information may be obtained from this office, or offices of Asst. Purchasing Agent, 24 State St., New York City, or Asst. Purchasing Agent, at Custom House, New Orleans, La. H. J. GALLAGHER, Major, U. S. A., Purchasing Agent. 15-4t

U. S. ENGINEER OFFICE, Newport, R. I., April 13, 1905.—Sealed proposals for dredging anchorage area in Providence Harbor, R. I., will be received here until 12 M., May 15, 1905, and then publicly opened. Information furnished on application. J. H. WILLARD, Lt.-Col., Engrs. 15-4t

SITUATIONS OPEN

A SMALL, but good rated and ambitious concern with prospects of rapid growth, wishes to permanently engage a man who will aid in its enlargement. One who can estimate costs and secure contracts for structural and ornamental iron work. Fully describe qualifications, age, salary expected and other interesting particulars with assurance that application will be treated confidential, as it is certain the needed man is now somewhere engaged. Address "A. A. 15," Engineering News, New York. 15-1t

WANTED.—Draftsman, experienced in mill work, especially paper and pulp mills; American preferred. Also draftsman with some experience in laying out work; must be a good tracer and neat letterer. Address "B. A. 15," Engineering News, New York. 15-2t

"The Job but a Small One."

We are very much pleased with our ad. for bids on this work (for a bell tower). **While only eight bids were received, we have had inquiries from at least 25 firms, and the job but a small one.**

Edward C. Charlton, City Clerk, Bradford, Pa.

The Proposal Advertisement referred to occupied one inch in several late issues of ENGINEERING NEWS. Bids were received from eight responsible firms from Connecticut to Ohio, and the bids ranged from $1,200 to $1,900.

The best and most favorable bids for any kinds of construction work and engineering supplies can be secured *only by advertising in* ENGINEERING NEWS. Over 2,000 Proposal Advertisements from cities and counties alone were ordered inserted in ENGINEERING NEWS last year. *See that when you are asking for bids that the advertisement is ordered in* ENGINEERING NEWS.

It will save you money.

220 Broadway, New York.

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